THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: 3617 CENTRAL (3 lines).

Established in **ENGLAND, 1859.]**

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C. 4.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]

Established in **[AUSTRALASIA, 1885.**

No. 1,942. Vol. LXXXIX. APRIL 14, 1917.

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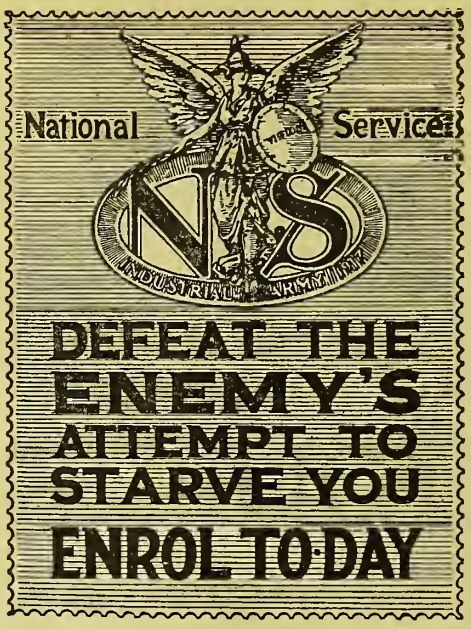

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The entire assets of the business have been purchased by us from the Board of Trade, with the result that you can now obtain the genuine original Sanatogen and Formamint, made in the same British factories, by the same British chemists and workmen, and by the same special machinery and processes which the German firm employed.

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Chairman: LADY MACKWORTH. 12, Chenies Street, LONDON, W.C.

Note.—*Sanatogen will later on be re-named* Genatosan *to distinguish it from inferior substitutes with similar names.*

Reduced facsimile of our New Counter Bill.

See facing page.

A Parcel of Counter Bills Sent Free with every £5 Order for Sanatogen, etc.

Supply strictly limited, owing to Paper Restrictions.

ORDER TO-DAY.

In view of the scarcity of paper our printers are only able to supply half the number of Counter Bills ordered by us.

As this quantity is inadequate to meet the demand from the Trade, and the new regulations forbid our placing an additional order, we propose to distribute the Counter Bills on what seems to us the most equitable basis—namely, that the number allotted to each pharmacist should be in proportion to the amount of business which he does with our lines.

We therefore offer one parcel of Counter Bills with every £5 order, two parcels with every £10 order, and so forth.

On the opposite page we publish a reduced facsimile of the Counter Bill, which is printed on good quality white paper, and measures 11⅛ inches by 8⅝ inches.

As this plan will necessarily exhaust the supply of Counter Bills in a very short time, pharmacists requiring a supply should send their orders without delay.

Important Notice *re* Advertising Material in Cartons, etc.

According to new regulations it will not be permissible, after April 21, to enclose any advertising material in tins, cartons, etc., other than actual directions for use.

We are informed, however, that the manufacturer may supply the retailer with such advertising material *to be handed to the customer when the purchase is made.*

As the Sanatogen tins and Formamint bottles have full directions for use printed on the labels, we shall enclose no printed matter in future ; but shall be pleased to send, post free, copies of our booklets to any pharmacist who will do us the favour of passing them on to purchasers of these preparations.

Summer Advertising.

Contrary to the usual custom, we intend to continue our Press Advertising throughout the summer months, as the results of the present campaign have been so successful.

GENATOSAN, LTD. (British Purchasers of the Sanatogen Co.)

(Chairman : Lady Mackworth)

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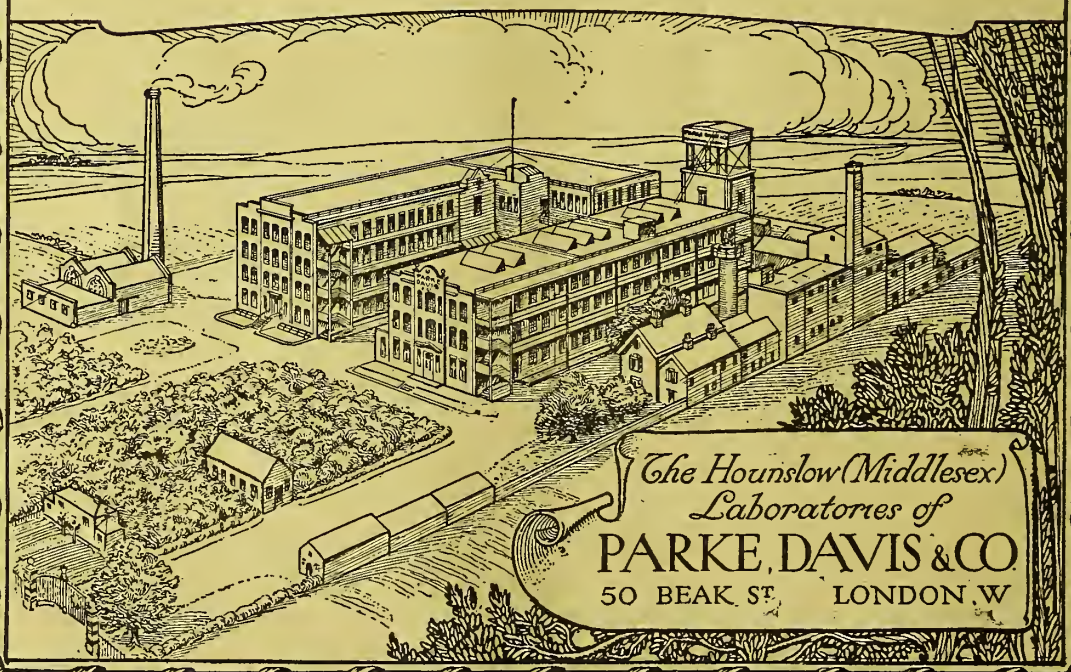
Write for prices of original bottles ready for sale, and particulars of how sales can be increased through our co-operation.



T.J. 38.

INDEX TO ADVERTISERS IN THIS ISSUE.

The Arabic numerals (1 to 32) in thi Index refer to Advertisements in the front of literary pages, the Advertisements following the literary pages are numbered in Roman numerals (i to xxviii).

For more complete Buyers' Guide see "The Chemist & Druggist" Diary. 1917.

ABBEY CHEMICAL CO., Ld. vi
AERATORS, Ld., Sparklets, Vacuum Flasks 8, 25
ALLCOCK MANUFACTURING CO., Plasters, &c. xxi
ALLEN & HANBURYS, Ld., Packed Goods .....Cover
ALLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals xi
ALTRINCHAM RUBBER CO. India-Rubber Goods.... 19
AMERICAN BUREAU OF FOREIGN TRADE vi
ANDERSON, WALL & CO., Boracic Socks xvi
ANGLO-FRENCH DRUG CO., Ld., French Props. ii
ARNOTT, JAMES, & SONS, Ld. Petroleum Jellies.... 20
ASHTON & PARSONS, Ld., Homœopathic Preparations xxvii
BAILEY, ROBERT, & SON, Gauzes, Surgical Dressings xviii
BAKER, PARSON O., Chemists' Valuer.....Col. Supp.
BARKER, R., & SON, Infants' Preservative iv
BARNETT & POSTER, Aerated Water Machinery 28
BARRACLOUGH J., & CO. Packed Goods xv
BATTAM & HEYWOOD, Valuers, &c.....Col. Supp.
BEECHAM, THOMAS, Pills x
BEETHAM, M., & SON, Toilet Articles..... 15
BELL, JOHN, & CROYDEN, Ld., Ampoules xv
BERDOE & FISH, Chemists' Valuers, &c.....Col. Supp.
BERKEFELD FILTER CO. (British) 26
BEWLEY & DRAPER, Dichroic Ink..... 13
BIDWELL, BIDWELL & CO., Brushware 14
BLYTHE, W., & CO., Ld., Epsom Salts, Zinc Sulphate xii
BOMBAY AGENTS' CO., Agencies xxii
BRADLEY & BOURDAS, Plate Polish 19
BRITISH DRUG HOUSES, Ld., Chemicals, Pharmaceuticals, Foods, &c. ..... Cover
BRITISH PASTEUR-CHAMBERLAND FILTER CO. 26
BROOK, PARKER & CO., Ld., Drug Merchants xvii
BROWN, B., & BRO., Drugs, Chemicals, Vegetable Oils xvi
BROWN & SON, Water Stills xxvi
BRUNNER, MOND & CO., Ld., Alkalies.....Cover
BRYTSTELE MANUFACTURING CO., Razor Outfits xxiii
BURGE, WARREN & RIDGLEY, Ld., India-Rubber Goods, Air Cushions, Anti-Rheumatic Rings..... xxi
BURNSIDE & CO., Eucalyptus Oil 19
BURROUGH, J., Ld., Absolute Alcohol, S.V.R., S.V.M. Text
BURROUGHS WELLCOME & CO., 'Tabloid' Preps. 31
BUSH, W. J., & CO., Ld., Perfumes..... 10
BUTLER, E. H., & SON, Acetanilid, Aniline Dyes.... iv
BULL, D. W., Paper xx
CHATELAIN, J. L., French Medicinal Proprietaries .. v
CHELTINE FOODS CO., Foods 17
CHESTER, A. D., & CO., Ld., Chemicals xiv
CHRISTY, T., & CO., Toilet Articles, &c. .....4, xx
COLLEGE OF OPTICS, Optical Tuition xxiv
COLLEGE OF PRECEPTORS 17
COMMERCIAL TRAVELLERS' INSTITUTION..... xxiv
COOPER, SON & CO., Ld., Cachets..... xx
CRAWSHAW, E., & CO., Aniline Dyes xx
CUPAL, Ld., Cod-liver Oil Emulsion, Packed Goods 32
CUXSON, GERRARD & CO., Ld., Druggists' Sundries 16
DALE, J., MNFG. CO., Collapsible Tubes 22
DAVENPORT, J. T., Ld., Chlorodyne xxviii
DAVIDSON, J., & CO., Boxes..... xxii
DAY & SONS (Crewe), Ld., Proprietaries xxv
DEGEN, F. A., Advertising xxiv
DODGE & OLCOTT CO., Balsams, Essential Oils 19
DORE, JOHN, & CO., Stills xxvi
DUDLEY & CO., Ld., Shopfittings 6
DUNCAN, FLOCKHART & CO., Chloroform, Ethers, Bacterial Vaccines, Galenicals xv
EDGE, W. & SONS, Ld., Cleansers 12
EVANS SONS LESCHER & WEBB, Ld., Chemicals, Pharmaceuticals, Druggists' Sundries, Serums, Insect Powders .....23, iii, xii
ERHARDT, H., & CO., Ld., Tinfoil..... 13
EWEN, J., & SONS, Lard .....Col. Supp.
FABRA CO., Ld., Chemicals xiv
FAIRCHILD BROS. & FOSTER, Digestive Products, Foods, &c. 32
FASSETT & JOHNSON, Plasters xix
FAULDING, F. H., & CO., Antiseptic Soaps 24
FERRIS & CO., Ld., Opium Preps., Packed Goods.....xxiii
FERRY, T., & SONS Ld., Medical Glassware xxiii
FINK, F., & CO., Gums xx
FLETCHER, FLETCHER & CO., Ld., Liquors .....Text
FLOREY HARTLEY, Chemicals vii
FORSHAW, F., & SON, Ld., Soap and Chemical Plant 20
FRAME FOOD CO., Ld. Foods..... 27
GARDNER, W., & SONS (Gloucester), Ld., Machinery..xxvi
GENATOSAN CO., Sanatogen Foods 2, 3
GIBBINS, R., & CO., Tablets .....Col. Supp.
GIGNOUX FRERES & CO., French Specialities..... ix
COSHERON, JOHN, & CO., Sealing Machine..... 24
GOWER, JOHN, Books (Secondhand, &c.) .....Col. Supp.
GRAESSER, R., Ld., Carbolic Acid, &c. xv
GREEFF, R. W., & CO., Chemicals (Fine and Technical) 7
GREEN, J. BARCHAM, & SON, Filter Papers xiv
GROVE CHEMICAL CO. Ld., Label Paste, Glues xv
HALDER, E. C., Dental Mechanics xx
HAMASAKI & CO., Japanese Chemicals xvi
HARKER, O. R., STAGG & MORGAN, Ld., Hair Dyes.. 14
HARLEY, T. Rat Poison 17
HARRISON, ALF., & SONS, Chemists' Printing..... 25
HASKINS, SAML., & BROS., Ld., Window Stands 6
HAY, E. J., & CO., Caramel iv
HAY, W., Ld., Soluble and Fruit Essences 29
HAYWOOD, J. H., Ld., Artificial Limbs, &c. xviii
HEDLEY'S MALTED MILK CO., Malted Milk 27
HENRY, T. & W., Calcined Magnesia xvii
HEWLETT, C. J., & SON, Ld., Pharmaceutical Preps. 27
HIBBERT, F. J. Acetylsalicylic Acid, Phenacetin.... vii
HOLLANDSCHE MELKSUIKERFABRIEK, Milk Sugar 30
HOVENDEN, R., & SONS, Ld., Druggists' Sundries, &c. 18
HUISKING, O. L., American Drugs, Chemicals &c. .. xii
ISAACS, I., & CO., Glass Bottles .....Col. Supp
JEWSBURY & BROWN, Tooth Paste..... 15
JOB BROS., Cod Liver Oil, Newfoundland 25
JOHNSON & SONS (Mnfg. Chts.) Ld., Photographic Chemicals iv
JOSEPHS, PHILIP, & SONS, Ld., Shopfittings ..Col. Supp.
KENT, G. B., & SONS, Ld., Brushware (all kinds).... 14
KESSLINC(E.),THERMOMETER CO.,INC.,Thermometer xx
KINGSLEY & THACKERAY HOTELS,Ld.,Hotels Col.Supp.
KIRBY, H. & T. & CO., Ld., Tablets..... xiv
KITCHENER CO., Straw Hat Cleaners..... 14
KOLENE CO., Hair Preparations 14
LAMBERT, S. & CO., Crude Drugs, Gums, Essential Oils 19
LANG, JULES, & SON, Medical and Chemical Glassware xxiii
LAPORTE, B., Ld., Hydrogen Peroxide v
LENNOX FOUNDRY CO Ld., Chemical Plant xxvi
LEVERMORE, A., & CO., Ld, Chalk (Precipitated) .. xx
LEWIS, H. K., & CO., Ld., Medical Books xxiv
LOFTHOUSE & SALTMER,Ld.,Foods,Asthma Remedies 12
LONDON CHEMICAL WORKS, Ld., Salicylic Acid, &c 5
LORIMER, J., Foods, Antiseptics, Perfumes 26
LUDY & CO., Silver Salts, Tannin Preps..... xx
LYSOL, Ld., Disinfectants, Fly Killers 21
M'GLASHAN, D., Fruit Drink 17
McKESSON & ROBBINS, Capsuled Pills, Dentifrices .. xiii
MALLINCKRODT CHEMICAL WORKS (Canada), Ld. vii
MANGOLD, C., & CO., Chlorates and Perchlorates 24
MAW, S., SON & SONS, Druggists' Sundries 11
MAY, ROBERTS & CO., Ld., Anti-Vermin Belts ....Cover
MENLEY & JAMES, Ld., Pharmaceutical Props..... 8
MERSON, G. F., & CO., Surgical Catgut xxii
MOND NICKEL CO., Ld., Copper Sulphate xvi
MONSANTO CHEMICAL WORKS, Glycerophosphates ix
MULFORD, H. K. CO., Bacterins, Serums x
NATURAL FOOD CO., Ld., Foods (Special) 27
NEWBALL & MASON, Botanic Drugs, Herb Extracts.. 8
NEWBERY, F., & SON, Ld., Druggists' Sundries .. 23
NORTHERN TIN CANISTER WORKS 9
ODOL CHEMICAL WORKS, Dentifrices 12
OLDFIELD, PATTINSON & CO. Opium, Dairy Preps, Cover
OURY, MILLAR & CO., Gelatines 30
PARKE, DAVIS & CO., Dentifrices, Packed Pharmaceuticals, Serums, Tablets 10
PASCALL, JAS., Ld., Medicated Confectionery 30
PEARSON, E. T., & CO., Ld., Salicylic Acid, Foods.... ix
PEAT PRODUCTS (Sphagnol), Ld., Soaps, &c. xxi
PERKEN, SON & CO., Ld., Clinical Thermometers 17
PETRI BROS., Chemicals..... vii
PICKARD, IVE & RANKIN, Ld., Acetyl-Salicylic Acid xviii
PORGES, Gutta Percha Substitutes xxii
POULENC FRERES, Stovaine 19
PRIDEAUX'S Ld., Casein 17
RAWORTH, J. E., Patent Agent xx
RENDELL, W. J., Pessaries xxii
REYNOLDS & BRANSON, Ld., Surgical Instr., &c....Text
RIGOLLOT, Mustard Leaves..... 30
ROBARTES, Ld., Toilet Specialities 22
ROBINSON & SONS, Ld., Carbons, Surgical Dressings 6
RUCH, A., & CO., Ld., Glassware xviii
RUDDUCK & CO., Chemists' Shop Fittings .....Col. Supp.
RUSSO-BRITISH COMMERCIAL CO., Russian Agencies xvi
SANITAS CO., Ld., Disinfectants.....Text
SHADEINE CO., Hair Dyes xx
SINGLETON & COLE, Ld., Tobacco and Cigars xx
SMITH, T. & H., Ld., Alkaloids, Resins & Resinoids xiii
SOLAZZI, Liquorice 30
SOLPORT BROS., Ld., Corn Plasters, Puffs, Loofahs 22
SOUTH OF ENGLAND SCHOOL OF PHARMACY . xxiv
STANDARD TABLET & PILL CO., Ld., Capsules Col. Supp.
STERNS, Ld., Petroleum Jelly 13
STEVENSON & HOWELL, Ld., Soluble and Fruit Essences, Essential Oils, Synthetic Perfumes I
STIPENDUM STOPPER CO., Boxes, Stoppers 12
STOKES, O. A., & CO., Ld., Shaving Sticks xx
STURGE, JOHN & E., Precipitated Chalk viii
THORNLEY, S., Ld. Methylated Spirit 9
TIDMAN & SON, Ld., Sea Salt..... xxvi
TIMPSON, JOHN, & CO., Ld., Antiseptic Powder 16
TOLKOWSKY, S., Russian Crude Drugs, &c. viii
TOMPKINS, J., Ld., Rubber Goods xx
TOOGOOD, W. Ld., Druggists' Sundries..... 15
TYRRELL, CHAS. A., Syringe xvii
UEYAMAYEI INSECTICIDE PRODUCING CO. 17
VAN HORN & SAWTELL, Surgical Ligatures xx
VISCOSE DEVELOPMENT CO., Ld., Self-fixing Caps .. 22
WARRINGTON CHEMICAL & DRUG CO., Salicylic Acid xiv
WASHINGTON CHEMICAL CO., Ld., Magnesia & Salts xvii
WATFORD MANFG. CO., Ld., Soup Cubes 27
WATSON & CO., Photographics .....Col. Supp.
WEBSTER, T., & CO., Ink Powder 9
WELCH & HORNER, Drugs, Chemicals, Essential Oils vi
WENGERS, Ld., Potters' Chemicals xvii
WESTMINSTER COLLEGE OF PHARMACY..... xxiv
WHIFFEN & SONS, Ld., Emetine Salts, Quinine, &c. i
WILKINSON, J. F., Chemists' Printing 24
ZEAL, G. H., Clinical Thermometers 24

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1917

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BOX MAKERS TO THE CHEMIST TRADE
CHESTERFIELD & LONDON.

(21)

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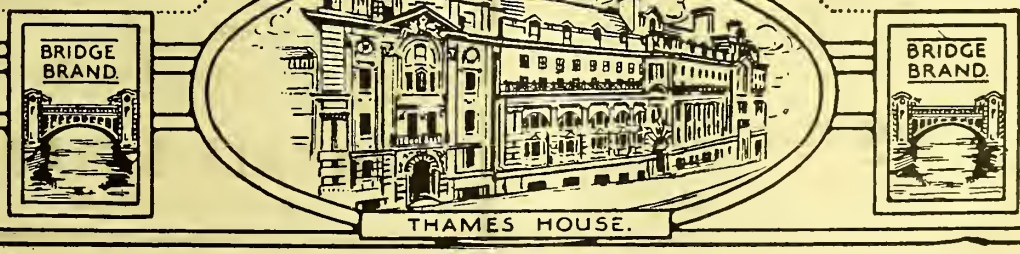

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4 oz.....4/0	40 oz.....6/0	40 oz.....8/6	4 oz.....4/0	40 oz.....8/6

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"Prana" Sparklets.

NOTICE TO THE TRADE.

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As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

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Cheaper than Novocain and Benzocain and obtainable promptly in practically unlimited quantities from the manufacturers:

LES ETABLISSEMENTS POULENC FRERES

92, RUE VIEILLE DU TEMPLE, PARIS.

METHYLATED SPIRIT

OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.

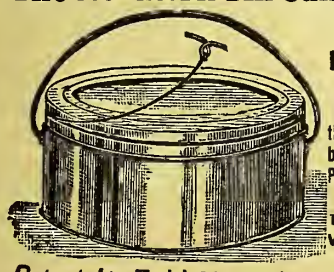
Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, Ltd., BIRMINGHAM

The Northern Tin Canister Works,

6 Mersey Street,

LIVERPOOL.



We manufacture for the paint trade in all its branches—Decorated and Plain work.

TIGHT SEAMING & VARNISH BOTTLES A SPECIALITY.

Patent Air-Tight Slip-lid Tin for Export.

Prompt Deliveries Assured.

WRITING INK POWDER

As supplied to Govt. Depts. and the principal Railway Cos. Saves 98% Freight. Suitable for any Climate.

ALSO

WRITING INKS, COPYING INKS, GUMS, PASTES, INK POWDERS, STENCIL INK.

T. WEBSTER & Co.

Diamine Works,

LIVERPOOL.

POTTER & MOORE'S

Fragrant Old English

Mitcham

Lavender Water.

ESTABLISHED 1749

PROTECTED BY THE P.A.T.A.

OUTLAY.

			£	s.	d.
2 doz.	1/-	size at 8/- doz.	0	16	0
2 „	1/9	„ at 14/- „	1	8	0
1 „	3/-	„ at 24/- „	1	4	0
½ „	4/3	„ at 34/- „	0	17	0
¼ „	7/6	„ at 60/- „	0	15	0
			£5	0	0
Less 5% on £5 parcel -			0	5	0
			£4	15	0

RETURN.

			£	s.	d.
2 doz.	1/-	size -	1	4	0
2 „	1/9	„ -	2	2	0
1 „	3/-	„ -	1	16	0
½ „	4/3	„ -	1	5	6
¼ „	7/6	„ -	1	2	6
			£7	10	0

Net Profit of £2 15s. 0d. on an outlay of £4 15s. 0d.

SPECIAL TERMS FOR EXPORT ON APPLICATION.

Sole Proprietors:

W. J. BUSH & CO., LTD.

Ash Grove, Hackney,

London, E. 8.

TELEPHONE. CITY 7. PRIVATE BRANCH EXCHANGE.
TELEGRAMS ELEVEN CENT LONDON

Maw's Page

S. MAW SON & SONS (C.P.O. BOX No 54) 7-12 ALDERSGATE ST LONDON EC

NUMBER 287 APRIL 14.1917

CABLES ELEVEN LONDON
CODE A.B.C 4TH & 5TH EDITION

C. Trentham Maw, J.P.
Henry T. Maw, M.D.
Mowbray T. Maw.
Arthur T. Maw, Ph.C.

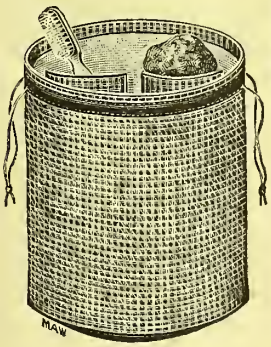
Holiday Lines

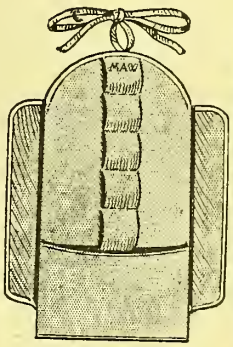
The good lines illustrated opposite have been selected for their smart appearance and wearing qualities.

We have an excellent range of Sponge Bags and Holdalls, and should be pleased to know your requirements.

We illustrate below our latest Sponge Bag, the "Ubique." It contains four pockets inside.

	DOZ.
Diamond Check	16/-
Super ,,	20/-
Stout Khaki	21/-

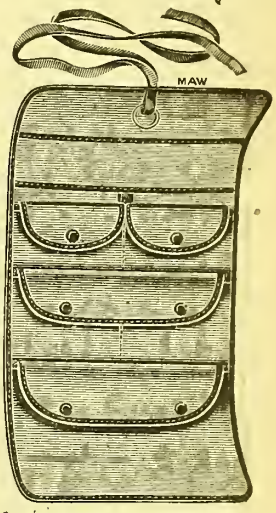




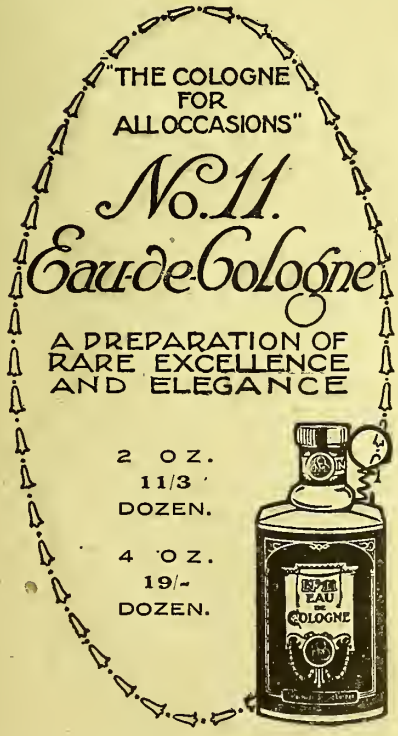
23/C2 and 24/C2.

23/C2. Waterproof Khaki Holdall, 12 × 9½ in., cheap roll-up pattern, 12/- dozen.

24/C2. As above, Super Quality, 20/- doz.



27X/C2. Roll pattern, Waterproof Khaki, 18 × 9½ in., 42/- doz.
27/C2. Roll pattern, 23 × 11½ in., strap and buckle fastening. 72/- doz.
These two patterns are provided with a full-length towel pocket at back.



Scheming

Next to the raising of the enormous British Army, perhaps the most wonderful thing about our War preparations is the system which perfectly equips every unit of the fighting forces as they are called to the colours. The man who joins up steps from the chaos of civilian life into the largest organisation in the world.

. . .

The British Brain that plans the movement of troops and munitions, that draws up strategical movements and builds up cities of huts, does not forget to provide the needle and thread for the errant button. The soldier's kit is a combined wardrobe and hosier's shop. Pants and shirts and boots, of course; and they don't forget to add a cardigan and a head muffler, and a holdall replete with most toilet requisites.

. . .

The War authorities may pile up shells and mortars and grenades to the skies, but they realise that they are useless without the men to speed them on their way, and such men need so much clothing apiece. Nothing is overlooked that may bear unfavourably on the personal factor that decides the fates of all battles.

. . .

Here, in the House of Maw, there is a similar organisation within an organisation; where every little detail is thought out for the ulterior motive of triumph in the Battles of Business.

There are many departments which never stock a line or see a traveller; yet one and all do their bit in the achievement of those Maw victories in which every customer shares.

Capsule

You Reap the Profits!

The above is only one of the many forceful advertisements now appearing in the most influential National publications and Fashion periodicals telling housewives that Iron-mould is no longer immovable. MOOVOL contains no injurious acids and is not harmful to the most delicate fabric.

ARE YOU PARTICIPATING IN THE PROFITS?

Send a P.C. for trial stock and display material to

WM. EDGE & SONS, LTD.,
BOLTON, LANCS.
(THE DRUMMER DYE PEOPLE.)

Odol

IS BRITISH NOW

Send for Price List and Trading Terms.

ODOL CHEMICAL WORKS, BERKHAMSTED
C.V.& S.—2

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A. Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
* " " " " "	1/2	10/-
* " " " " bottles in cartons	1/6	12/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema **13/6** per dozen boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

Liquid Paraffin B.P.

Petroleum Jelly B.P.

White Oils,
Half-White and Coloured Mineral Oils.

STERNS LTD.,
Royal London House, FINSBURY SQUARE, LONDON, E.C.

TINFOIL PURE TIN (Free from Lead).
All Thicknesses, Sizes, Shapes, and Designs for the Wrapping of
DRUGS, CHEMICALS, PLASTERS, BANDAGES, AND SANITARY APPLIANCES.
BOTTLING FOILS.
SHAVING SOAPS FOILS
(Designed and Perforated).
TOILET SOAPS FOILS, AND FOILS FOR COMPRESSED TABLETS OF FOODSTUFFS, DRUGS, PILLS, LOZENGES, &c.
CHOCOLATE (Embossed or Printed).
Also in REELS for WRAPPING MACHINES and
LEAD & COMPOSITION FOILS
for special Chemical Wrapping.

H. ERHARDT & CO. Ltd.
9 & 10 Bond Court, Walbrook,
LONDON, E.C.
Established 1870. Telephones 383 and 384 City.
Telegrams: "ERHARDT LONDON."

For FOUNTAIN PENS and all Pens the Best.

Dichroic Ink

Makes Writing Easy

Proprietors:
Bewley & Draper, Ltd., Dublin.

BIDWELL, BIDWELL & CO., LTD.

Beg to inform the Trade that owing to the shortage of labour and Government Orders which they have in hand, a little delay is unfortunately bound to occur in the execution of Chemists' Requirements. Pharmacists are assured that their Orders are receiving every possible attention under the circumstances.

Head Office and Factories—**AXMINSTER, DEVON.**

LONDON OFFICE—

BUSH LANE HOUSE, CANNON ST., E.C.

SUPPORT HOME INDUSTRIES.

BUY KENT'S BRUSHES.

Diary 1917, pp. 108, 109.
Winter Issue, 1917, pp. 68, 69.

KOLENE FOR THE HAIR.

is sold in all parts of the United Kingdom.

Sales run into millions annually.

Sold

1d. Line, 1½ doz. cards		8/- grs.
2d. Line, 1 doz. cards		16/- „
3d. Jars	...	2/- doz.
4½d. Jars	...	3/- „
6d. Jars	...	4/- „

KOLENE has a rapidly increasing SALE.

Ask for one of our travellers to call, or order direct from

The KOLENE CO., 206 Stewart's Rd., London, S.W.

3 DOZ. 2D. PACKETS

"WHITEAGAIN"

STRAW HAT CLEANER

On Attractive Showcard.

CARRIAGE **4/-** PAID.

FOUR CARDS **13/8.** CASH WITH ORDER.

THE BEST 2D. STRAW HAT CLEANER ON THE MARKET.

IT NOT ONLY CLEANS, BUT WILL MAKE OLD STRAW HATS WHITE AND LIKE NEW AGAIN.

KITCHENER CO. (Sole Proprietor, ROBERT BLACKIE)

168 TOWER BRIDGE ROAD, LONDON, S.E.

OVER 100 % PROFIT ENSURED & PROTECTED (P.A.T.A.)

for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail	Minimum wholesale.
1/-	1/-	7/6
1/6	1/6	9/-
2/6	2/3	15/-
3/6	3/3	21/-

per doz. less 5 % discount

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

Sole Proprietors—

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.

The British Dentifrice.

Jewsbury & Brown's

ORIENTAL

TOOTH PASTE

IN TUBES AND POTS.

JEWSBURY & BROWN

Ardwick Green, Manchester.

BEETHAM'S

"LAROLA"

(Registered)

Is the Skin Tonic for 1917.

It is effective.
It is attractive.
It is price-protected.
It is well-advertised.
It sells readily.
It bears a good profit.

HAVE YOU OUR SHOWCARD ?

THIS IS WHAT THE "C. & D." SAYS OF IT:

Beetham's New Showcard.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, CHELTENHAM.

No. 77 BRITISH Eau de Cologne

In Square Bottles

2 oz.	...	11/- doz.
4 ,,	...	21/6 ,,
8 ,,	...	41/6 ,,

In Wickered Bottles

½ pint	...	34/6 doz.
1 ,,	...	65/- ,,
2 ,,	...	122/- ,,

Write for Samples. Showcards supplied.

Manufactured only by

WILLIAM TOOGOOD, Ltd.,

77 Southwark Street, London, S.E.

"SANOID" BORACIC SOCKS

FOR SPRING SALES.

MANY Chemists have enjoyed the ready sale of Boracic Socks, which literally

SELL THEMSELVES

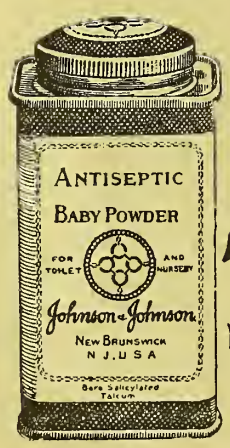
3/6 per dozen pairs.
40/- per gross pairs.

Now is the time to order, so as to enjoy a share of these

READY SALES

FREE SAMPLE PAIR ON APPLICATION.

CUXSON, GERRARD & CO., Ltd., OLDBURY AND BIRMINGHAM.



Look for the Name and Trade Mark

ANTISEPTIC BABY POWDER

MANUFACTURED BY

Johnson & Johnson.

We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

WARNING. The contents cannot be imitated, and the Trade Mark cannot be imitated; and we would ask those Customers who have handled this preparation for a quarter of a century, with every satisfaction to themselves and to their clients, to resent this method of copying other firms' productions by insisting on having the original package bearing the registered Trade Mark, which is the guarantee of quality.

JOHN TIMPSON & CO., Ltd.,
104 Golden Lane,
LONDON, E.C.

PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

The College of Preceptors holds Preliminary Examinations in March, June, September, and December. All the Examinations are held in London, Aberdeen, Birmingham, Blackburn, Bristol, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Manchester, Newcastle-on-Tyne, and Nottingham. For the June and December Examinations there are other centres, including Blackpool, Brighton, Carmarthen, Cheltenham, Croydon, Exeter, Margate, Plymouth, Portsmouth, Sheffield, Southampton, Southend, Southport, Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors, Bloomsbury Square, London, W.C.

ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.

"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3.

Order through your Wholesale Drug House.

D. M'GLASHAN M.P.S., Abdine Works, Westfield Road, EDINBURGH.

Wholesale Prices on Application

DIABETES

CHELTINE FOODS CO., CHELTENHAM.

FLOUR, BISCUITS, BREAD, FOOD, Etc.

Highly Recommended by Medical Profession

INFANTS' FOODS packed under Chemists' "OWN NAMES."

All particulars on request.

FINEST QUALITY

MILK POWDER. CASEIN.

Inquiries and Orders Solicited.

PRIDEAUX'S LTD., DEPT. C, MOTCOMBE, DORSET

LONDON OFFICE:

10 HOP EXCHANGE, Southwark Street, S.E.

CLINICAL THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.

40 DIFFERENT KINDS.

Special Quotations to Wholesale Buyers

THE **"MATER"**

LENS FRONT (Regd.)

CLINICAL THERMOMETER.

P.A.T.A.

MERCURY COLUMN SEEN AT A GLANCE.

Made in Two Rapidities, 1 Minute and ½ Minute.

New Price List of Thermometers for every purpose, post free.

PERKEN, SON & CO. LTD.

ESTABLISHED 1852.

Contractors to H.M. Government.

99 Hatton Garden, LONDON.

"each rat had died within six inches of the place where the poison was put down."

Pte. A. H. WHITE, Mechanical Transport, B.E.F., France, writes:

"RODINE."

"The 'RODINE' has done absolute wonders, beating all records, and has completely cleared our billets. To start with, I put six pieces down, and in the morning we found six rats, but the most wonderful thing was that each rat had died within six inches of the place where the poison was put down. Since then we have not had a single rat in the billet, and although there seems hundreds outside never one comes inside."

For particulars write the Sole Maker:

HARLEY, Manufacturing Chemist, PERTH, SCOTLAND.

EXPORT AGENTS:

TOZER, KEMSLEY & MILLBOURN, LTD.
84 Fenchurch Street, LONDON, E.C.

HOVENDEN'S THEATRICAL GREASE PAINTS.

These paints are manufactured at our Factory in Britannia Row, N. Guaranteed pure, colours perfect, and quality better than any foreign make.

VIDE Test'monials.

MADE IN THE FOLLOWING SHADES:—

No.		No.	
1	Very pale flesh.	15	Brick red.
1½	Moderately pale.	16	Dark brown.
2	Fair complexion.		
2½	Medium flesh.	17	Carmine, vermilion.
3	Pale complexion.		
3½	Slightly sunburnt.	18	,, light.
4	Dark flesh.	19	,, medium.
5	Sallow or Chinese.	21	,, dark.
5½	Dark sallow.		
6	Yellowish flesh.	20	White.
6½	Japanese.	23	Light grey.
7	Brown.	24	Dark grey.
8	Armenian Bole.	25	Old red.
9	Sunburnt or Indian.	26	Light blue.
		31	Middle blue.
10	Light brown.	27	Dark blue.
11	Burnt umber or Othello.	28	Light yellow
		29	Dark yellow.
12	Black.	30	Rose.
13	Red brown or Mulatto.	32	Dark rose.
14	Chocolate or North African.		Chrome.
			Citron.

3/9 doz. Sticks.

Special quotation for quantities.

OPINIONS FROM POPULAR PEOPLE.

Mr. MARTIN HARVEY, Grand Theatre, Hull.

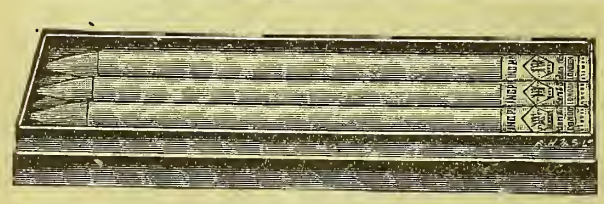
"I have been intending for some time to send you a testimonial about your Grease Paints. I have given them a good trial now, and I think I can honestly say that they are superior even to the German, and that, alas! is saying a good deal. I compliment you heartily upon your achievement."

Mr. WILL EVANS, Theatre Royal, Drury Lane.

"I thank you for sample of your Grease Paints you sent, and I find it a very excellent preparation. I shall certainly continue to use it."

Mr. PHIL RAY.

"Not being fortunate enough to receive a sample of your excellent Grease Paints, I purchased same for myself, and after a lengthy trial I have no hesitation in saying that, from my point of view, it is immeasurably superior to any foreign make."



LINING PENCILS.

English Manufacture.

Black, Old Red, Brown, Light Brown, Dark Brown, Light Blue, Medium Blue, Dark Blue, White, Flesh, Light Grey, Dark Grey, Carmine.

2/6 per doz. Sticks.

Subject to 2½% Cash Discount. A copy of our Monthly Illustrated List will be sent on application.

R. HOVENDEN & SONS, Ltd.

29 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. 1. Tel. No.: Museum 2810 (3 lines).
And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. 1. Tel. No.: 6260 London Wall (2 lines).

LONDON.

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

SAM^L. LAMBERT & CO.,

14 MINCING LANE, LONDON, E.C.

Importers and Exporters.

First hands for all

Estd. 1870.

CRUDE DRUGS & ESSENTIAL OILS.

A few Specialities :—

ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICK-SILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.

Sole Agents for :

Oils : Lemon, Bergamot, Orange ; Terpeneless Oils: Lemon, Bergamot, Orange.—*Fratelli de Pasquale & Co., Messina.*
Bay Rum and Bay Oil.—*Bornn, St. Thomas.*
Essential Oils, Drugs, Chemicals, &c.—*National Aniline & Chemical Co., New York.*

DODGE & OLCOTT CO.,

20 MARK LANE, LONDON, E.C.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS, Angosturas.

'Phone: CITY 2468.

Telegrams: "EGDARF, FEN, LONDON."

Cable Address : "BURNSIDE." Code: A B C, 5th Edition.

EUCALYPTUS OIL, Rectified

Eucalyptol content 70 to 80%
Optical rotation .... 0 to 1
Specific Gravity .... ·919 to ·928

ABSOLUTELY FREE FROM PHELLANDRENE.

Quotations by cable. Wholesale trade only.

BURNSIDE & COMPANY

EUCALYPTUS OIL DISTILLERS,
EAGLEHAWK, VICTORIA, AUSTRALIA.

BLACK AND TRANSPARENT RUBBER

FEEDING BOTTLE TUBING

NUMEROUS PATTERNS AND SIZES OF HYGIENIC AND ORDINARY

FEEDING BOTTLE TEATS

CARDED COMFORTERS.

THE ALTRINCHAM RUBBER COMPANY,
Mossburn Buildings, Stamford New Rd., Altrincham.

BRILLIANT PLATE.

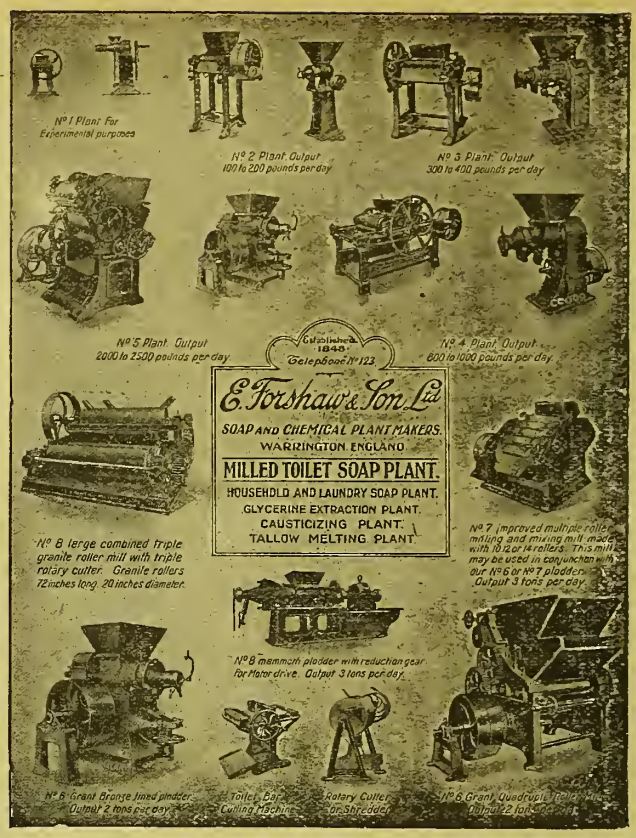
"ALBATUM OR WHITE ROUGE"

GIVES A UNIQUE POLISH TO ALL SILVER AND ELECTROPLATED GOODS.

In 6d. and 1/- Boxes, and Tins, 2/-

BRADLEY AND BOURDAS,

6 PONT STREET, S.W.



PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

Newcastle-on-Tyne and Cardiff.

THERE'S A LARGE PUBLIC FOR SIXPENNY TOOTH PASTE.

Have you a good one?

Meet the demand in your neighbourhood by selling the premier line ——

ŌSYL TOOTH PASTE

RETAILS 6d. Per Tube.

Show our attractive New Cartons on your counter. It sells at sight, and repeats on its merits.

YOUR PROFIT—100%

Send Card for special Display Terms,

LYSOL LTD., STRATFORD, LONDON, E. 15.

"Newbery's"
FRANCIS NEWBERY & SONS LTD

OXYGEN TOOTH POWDER

AN ADDITION TO OUR "N" SERIES.

This is a distinctive line, packed in Dull Gold Tins, with a most artistic label colour scheme.

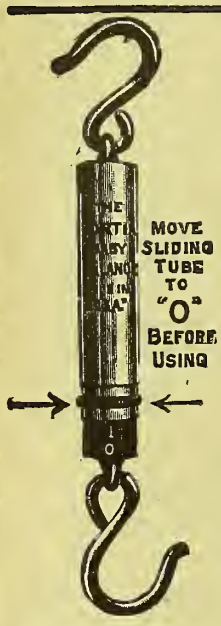
The Tooth Powder and the get-up make a toilet accessory to satisfy the most fastidious taste.

Uniform in style we supply Carbolic, Thymol, Smokers', Cherry, Parma Violet, a la Menthe. Retailer's own name and address where desired on orders for one gross, single or assorted, sizes and powders.

In three sizes, at 36/-, 42/-, and 48/- gross net.

Charterhouse Square, LONDON, E.C. 1.

A Profitable Seller



THE "PORTIA"

(Regd.)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price 11/6 dozen. Retail 1/6 each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

SOLPORT BROS.,

184 to 190 Goswell Rd., London, E.C.

Obtainable through all Wholesale Houses.

BRITISH MADE

SCENT SPRINKLERS
COLLAPSIBLE TUBES
Decorated Tin Boxes & Canisters

Manufactured by

The JOHN DALE Mfg. Coy.,

NEW SOUTHGATE, LONDON, N.

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The Dainty Deodorant

A new and attractive line that is sure to enjoy good sales. A greaseless Cream that takes the odour out of perspiration. Daintily packed in opal jars. Ask your wholesaler.

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The liquid hair remover

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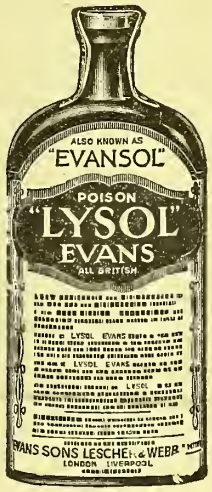

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The "REPELLO"

Requires no shaking down. *Guaranteed Accurate.*

A 30-Second Pushed back in an instant.

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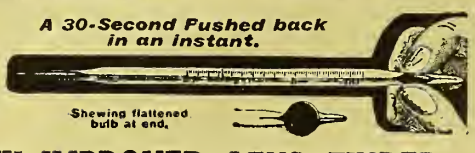

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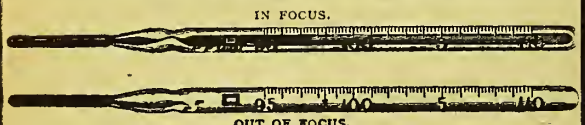

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The square mark engraved on lens front locates the Mercury column immediately.

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SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.

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A high-grade Toilet Soap of marked Antiseptic properties. Non-irritating. Agreeably perfumed. Lathers in hard water. Assists the complexion. Heals cuts & abrasions. Invaluable in the Nursery.

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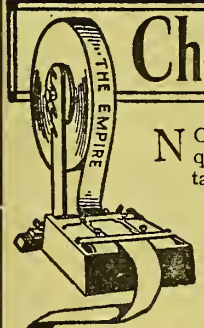

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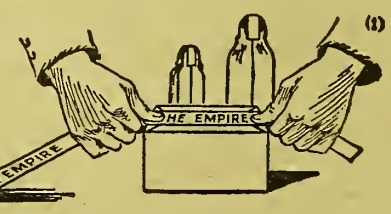

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Stop flow of blood at once.
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MANICURE FLEXIBLE FILES,
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Anhydrous and Hydrous.

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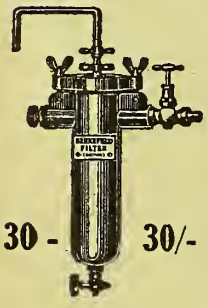
to your Tap and be sure of Fresh Sparkling Water quite free of all danger and impurities.



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HEDLEY'S MALTED MILK, being Citrated, the formation of Curds by the Rennet of the Stomach is prevented, so that it practically DIGESTS ITSELF.
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REAL TURTLE
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Made from the real rich meat of selected West Indian Turtles—so that real Turtle Soup, once the privilege only of the rich, is now a delicacy easily accessible to every household. No other soup is so nourishing and delicious.

Made in a minute with boiling water.
To retail in 1/- Cartons containing 4 Cubes.

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Makers of
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"It is of high nutritive value, enhanced by the presence of assimilable phosphates."—*The Lancet.*

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It is *quality* in the syphon that counts. **Back-pressure puts it there.**

High-pressures in the aerating cylinder won't do it. All that means is big gas bills and many syphon breakages.

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It's usual to aerate to 180 to 200 lb. to leave 60 lb. in the syphon! True, but this means loss of gas—a lot of gas.

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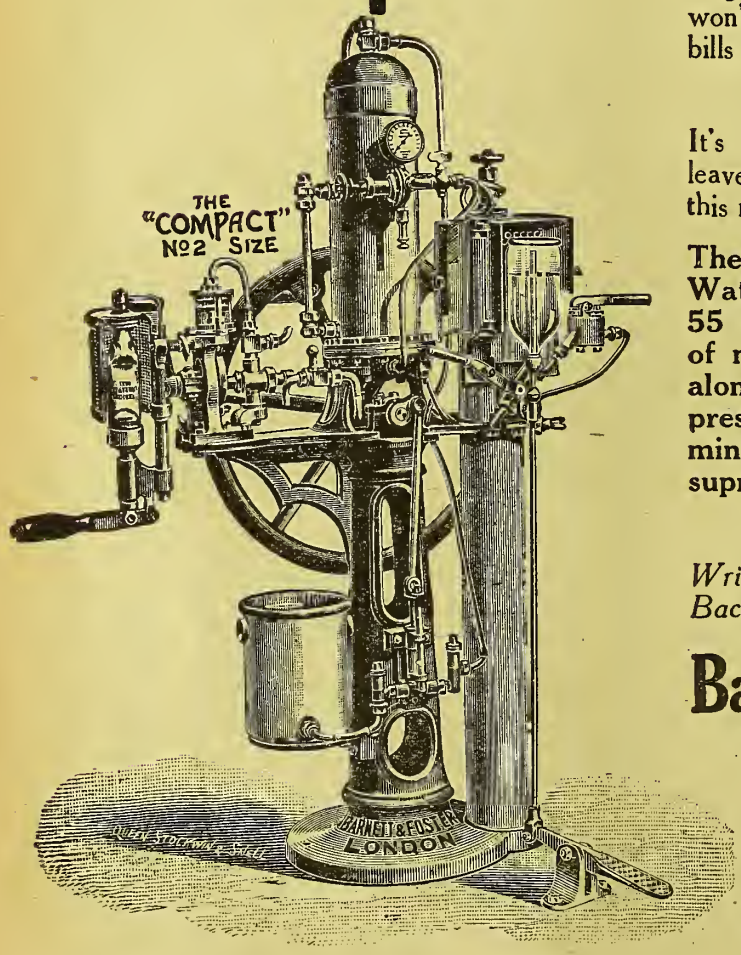
Write for particulars of "Compact" Back-Pressure Soda-water Machines.



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Price £50 : 2 : 0
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(SPECIAL QUALITY)

GINGER ALE

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Orders for Two Gallons and upwards of Essence may be shipped under bond.

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MADE IN HOLLAND

THE BEST IN THE WORLD.

Always of the purest standard and corresponding with the requirements of any Pharmacopœia.

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is the food par excellence for invalids; in all acute diseases, fevers, etc.; in convalescence, for the large class of persons who, from feebleness or deranged digestion, or antipathy to ordinary foods, require a fluid, agreeable, and quickly assimilable food.

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proves an effective resource against sleeplessness when this is due to excessive fatigue, stress of mental work, or malnutrition.

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A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
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Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 15 (Series No. 1942), Vol. 89.

	PAGE
Association of Certificated Dispensers	48
Associations' Winter Session	47
Births	39
Colonial and Foreign News	38
Coming Events	33
Oompany News	39
Corner for Students	44
Correspondence.	
Medicinal Plants	51
Subscribers' Symposium	52
Miscellaneous Inquiries	52
Deaths	39
Editorial Articles:	
Gelatin Capsules	42
Inland Revenue	42
Advertising Circulars	43
German Drug-supply, Pharmaceutical Finance	43
Phytological Chemistry, etc.	44
English News	35
European War	33
German News	38
Information Department	41
Insurance Act Dispensing	47
Irish News	37
Legal Reports	38
Marriages	39
Microbiology for Pharmacists	45
Military Tribunals	34
Observations and Reflections	41
O. Henry	45
Personalities	40
Pharmaceutical Society of Great Britain:	
Financial statements	45
Poisoning Statistics	34
Retrospect	52
Scottish News	37
Trade-marks	48
Trade Notes	40
Trade Report	49
Westminster Wisdom	37

Coming Events.

Sunday, April 15.

Pharmacists' Volunteer Corps. Duke of York's, Chelsea, at 10 A.M. Parade, followed by lecture on sanitation.

Wednesday, April 18.

Birmingham Pharmaceutical Association. Ordinary meeting.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Ordinary meeting. Among the papers to be communicated are: "The Pungent Principles of Ginger. Part I.—A New Ketone, Zingiberone, Occurring in Ginger," by Mr. H. Nomura; "Velocity of Decomposition and the Dissociation Constant of Nitrous Acid," by Messrs. P. C. Ray, M. L. Dey, and J. C. Ghosh; "The Alkaloids of Ipecacuanha. Part II.," by Dr. F. L. Pyman; "Note on the Isolation of Methylnonylketone from Palm-kernel Oil," by Mr. A. H. Salway; and "Metallic Derivatives of Alkaloids," by Mr. J. N. Rakshit.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 P.M. Social evening, preceded by a discussion on trade matters. Ladies are invited.

Thursday, April 19.

Glasgow and West of Scotland Chemists' Association, 165 Hill Street, Charing Cross, Glasgow, at 9 P.M. Annual business-meeting.

West Ham Association of Pharmacy, Earlham Hall, Forest Gate, London, E. Meeting.

Association of Women Pharmacists. Dr. Williams's Library, Gordon Square, London, W.C., at 7.30 P.M. Mr. A. H. Jenkin on "Pharmaceutical Assistance: Past, Present, and Future."

European War News.

America and the War.

"The present German warfare against commerce is warfare against mankind. It is a war against all nations. The challenge is to all mankind, and our motive will not be revenge, but only a vindication of right, of human right."

These are the words used by President Wilson of the United States. On Good Friday, April 6, 1917 Congress having passed the resolution declaring that a state of war exists with Germany, the Senate by 82 votes to 6, and the House of Representatives by 373 to 50, the President formally affixed his signature to the resolution. He also signed a proclamation giving effect to the resolution of Congress. Our King sent Mr. Wilson the following letter:

"I desire, on behalf of the Empire, to offer my heartfelt congratulations to you on the entry of the United States of America into war for the great ideals so nobly set forth in your speech to Congress. The moral, not less than the material, results of this national declaration are incalculable; and civilisation itself will owe much to the decision at which, in the greatest crisis of the world's history, the people of the great Republic have arrived. GEORGE R.I.
6th April, 1917."

"The better day, the better deed." The Allies' purpose is to prevent recurrence of such wars as the present, which was only possible through Germany preparing for military dominance of all nations. Brazil has broken off diplomatic relations with Germany.

Import and Export Notices.

RUSSIA.—The Director of the War Trade Department announces that, owing to the congestion of all routes to Russia *viâ* Norway and Sweden, it will not be possible for licences to be granted for the export of prohibited goods to Russia by these routes for at least one month from the present date. The parcel-post service to Russia *viâ* Canada and Japan is still in operation, but it is understood that this service is also considerably congested.

UNITED KINGDOM.—The following changes have been made in the list of prohibited and restricted exports: Aloes, cascara sagrada, jalap, rhubarb, and senega have been placed in the "C" list. Citric acid has been transferred from "C" to "B" list. Barium peroxide and hydrogen peroxide have been placed in the "B" list. Lead compounds and mixtures containing lead compounds have been placed in the "A" list. A list of articles covered by the Prohibition of Import Proclamations, and of decisions and interpretations thereunder, was issued as a Supplement to the "Board of Trade Journal" of March 29, price 3*d.*

Lead and Lead Compounds Controlled.

An Order under the Defence of the Realm Regulations, issued by the Ministry of Munitions, was published in the "Gazette" of Friday, April 6, prohibiting dealing in any kind of lead situated outside the United Kingdom, except under licence from the Ministry of Munitions, unless it is for the purpose of carrying out a contract in writing, existing prior to April 6 last, for the sale or purchase of white lead, lead oxides, lead manufactures, lead alloys, or lead compounds, or a contract in writing, existing prior to February 2 last, for the sale or purchase of any other kind of lead. Licences must also be obtained for dealing in any lead situated in the United Kingdom. The use of lead except "for the purpose of necessary repairs or renewals involving the use of not exceeding 1 cwt. of lead and not exceeding 28 lb. of white lead, lead oxide, or lead compound" is prohibited, and licences are not required for the above purposes. The regulations also require all persons to make monthly returns of stocks, purchases, deliveries, contracts, or existing orders to the Director of Materials (A.M. 2 E), Hotel Victoria, Northumberland Avenue, London, W.C. 2, to whom all applications for licences to purchase or use lead should be made. This Order applies to stocks exceeding 1 cwt. The following maximum prices have been fixed for lead compounds, red lead, and litharge:

Lead Compounds.—Dry white lead, 46*l.* per ton, less 5 per cent. monthly account, delivered United Kingdom. The usual trade extras and allowances to apply. White lead in oil, 53*l.* per ton, less 5 per cent. monthly account, for deliveries in packages of 5 cwt. and over; 55*l.* per ton, less 5 per cent. monthly account, for lots of less than 5 cwt. White lead in packages less than 5 cwt. to be charged at the customary trade extra for packing. These prices for white lead in oil are based on a price of 50*l.* per ton as the spot price for raw linseed oil in barrels. If the average daily spot price of raw linseed oil during the preceding month rises or falls by multiples of 6*l.*, then the above maximum price of white lead in oil shall

rise or fall by 10*s*. per ton for every 6*l*. per ton rise or fall in the price of linseed oil.

Red Lead and Litharge.—42*l*. per ton, less 2½ per cent. monthly account, in 5-cwt. casks, delivered United Kingdom. The usual trade extras and allowances to apply.

Personalia.

Pioneer A. M. Clarke, Royal Engineers, formerly with Boots, Ltd., Edinburgh, has been admitted to hospital in France.

Mr. G. W. Smithson, dispensing chemist, Swineshead, Lincs, who joined up some time ago, is now doing special analytical work for the R.A.M.C.

Major Alasdair Geddes, elder son of Professor Patrick Geddes, Dundee, has been awarded the Military Cross for observation work in the Royal Flying Corps. He is a science graduate of Edinburgh University, and was assistant director of the Cities and Town Planning Exhibition of India before joining the Corps in 1915.

Memorial to Captain Saunders.—More than 500 of the 800 employés of Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool, assembled in the general office (the furniture having been cleared for an hour) at noon on April 11, to witness a ceremony which proved deeply impressive, and visibly affected many present. Mr. Harold Nixon (a director), who presided, said the tablet would be associated with the general Roll of Honour of the company, which already contained about eighty-five names, including those of the three who had fallen: Will Ellison in the retreat from Mons, T. Lowis at Hill 60, and Captain Saunders at Montauban. Mr. E. H. Bentley (also a director) unveiled the tablet, which read as under:

[Royal Arms.] [Regimental Badge.] [Arms of Liverpool.]

To the Memory of
William Gilbert Saunders, F.I.C., F.C.S., Ph.C.
Capt. & Adjt. 5th Battn. King's Liverpool Regt.
A director of Ayrton, Saunders & Co. Ld.
Only son of W. H. Saunders (Chairman),
Who was killed in Action, Montauban,
France, Sept. 6th, 1916, aged 27 years.

Pro Patria.

Erected by his fellow-workers as a
Tribute of Admiration and Respect.
[Red Rose of Lancaster on border.]

As a resident of Liverpool for fifty years, Mr. Bentley said he felt proud of the fact that Captain Saunders was one of the millions of British young men who came forward to defend the Empire and humanity against Teuton aggression, and that he joined the Liverpool Regiment, whose fine record in former wars for nearly three centuries was signified by the unique military monument erected, from the sculpture of Mr. Goscombe John, in St. John's Gardens, Liverpool. Captain Starkey (a fellow-officer), speaking as a representative of the 5th Battalion King's and a friend from childhood for twenty years of Captain Saunders, said the British Army lost in him a fine officer. His battalion held him in the highest esteem possible. Mr. W. H. Saunders thanked the speakers and contributors to the memorial in the name of his wife (who was present) and himself. The sympathy, affection, friendship, and kindness manifested during the last six months had been to them both a great support. As long as that building remained the tablet would stand as a memorial of their only son. Dr. Symes also spoke, and Mr. T. Heenan led the singing of the National Anthem.

Miscellaneous.

Enemy Patents.—Blandy Bros. & Co., 16 Mark Lane, London, E.C., are applying for a licence or the suspension of patent 24652/10, "Manufacture of 3:6: diamino-acridine and its derivatives," belonging to Leopold Cassella & Co., Frankfort a/M. The hearing is at the Patent Office Court on April 19.

Enemy Firms.—A new list of additions (No. 23) to the statutory list of firms of enemy nationality or enemy association with whom persons in the United Kingdom are forbidden to trade has been issued by the Controller of the Foreign Trade Department. The countries concerned are Argentina and Uruguay, Brazil, Chile, Colombia, Ecuador, Netherlands, Netherlands East Indies, Norway, Peru, Spain, and Sweden. The list contains seventy-nine new names, of which twenty-four are in the Netherlands.

Contracts Made Prior to the War.—The President of the Board of Trade has appointed Lord Buckmaster (Chairman), Mr. C. S. S. Guthrie, Mr. Lennox Lee, Mr. F. D. Mackinnon, K.C., Mr. Walter Raine, Mr. F. G. Rice, and Mr. T. Worthington to be a Committee to consider and report on the position of British manufacturers and merchants after the war in respect of contracts entered into by them prior to the war with persons or companies in the United Kingdom, or in allied or neutral countries, the fulfilment of which has been prevented or impeded by the war, and as to the measures, if any, which are necessary or desirable.

Military Tribunals' Decisions.

The following are further decisions as regards dispensing chemists:

Amersham.—Conditional exemption was granted to Mr. A. M. Kennard, dispensing chemist.

Batley.—The case of W. Hinchcliffe, with Boots, Ltd., was adjourned until May 1.

Calverley.—Exemption until June 30 was granted to Mr. J. W. A. Wright, Ph.C.

Colchester.—Three months' exemption was granted to A. F. Chambers, assistant with Mr. E. H. Barritt, Ph.C.

Dundee.—Exemption was refused to John Ross, assistant with Wm. Doig & Sons, chemists. Mr. John Doig was told that if he shut his shop there are plenty of chemists in the centre of Dundee for the public needs.

Epping.—Six months' exemption was granted to W. Wood, with Mr. E. H. Slater, dispensing chemist.

Hastings.—The cases of Mr. T. R. L. J. Wharton, dispensing chemist, and Leslie Maitland and F. A. Thomson, chemists' assistants, came up for review, but were adjourned pending a conference with the Insurance Committee.

Hereford.—Exemption until October 1 was granted to Mr. S. A. Shackleton, dispensing chemist.

Hitchin.—Three months' exemption was granted to O. E. J. Radnor, assistant with Perks & Llewellyn, chemists.

Nuneaton.—Conditional exemption was again granted to Mr. Geo. Davison, dispensing chemist, and H. Evans, chemist's assistant.

Oxford.—The certificate was withdrawn of Mr. F. G. Walklett, dispensing chemist, employed by Mr. Geo. J. Walklett, but he is not to be called up for a month.

Pembroke.—The Military Representative has withdrawn his appeal in the case of Percy Evans, chemist's apprentice, as a result of the medical examination.

Redhill.—The appeal of Mr. Harry Hocken, dispensing chemist, has been dismissed by the Surrey Appeal Tribunal.

Rochdale.—Exemption until June 30 has been granted to S. H. Cheetham (Cheethams, Ltd.),

St. Andrews.—The exemption granted to J. M. McLean, chemist's assistant, was continued for a fortnight to allow of a substitute being found.

Southwark.—The case of Mr. J. P. Madden, manufacturing chemist, was adjourned for a month.

Poisoning Statistics.

The Report of the Registrar-General of Births, Deaths, and Marriages in England and Wales covering the year 1915 has been published this week. The following is a comparison of the main features with the figures of the year 1914:

	1914	1915
Population	36,960,684	35,358,896
Marriage rate ...	15.9 per 1000	19.5 per 1000
Birth rate	23.8 per 1000	22.0 per 1000
Deaths...	516,742	562,253
Death rate	14.0 per 1000	15.7 per 1000
Poison deaths (corrected figures)	Accident ... ... 313 Suicide ... ... 506 Total 819	Accident... ... 191 Suicide ... ... 327 Total 519
Ratio of deaths from poison	1 in 630	1 in 1087

The corrected figures which we give for poisonings are intended to show the deaths due to those poisons which are usually sold in chemists' shops, some of the poisons being included in the Schedule to the Poisons and Pharmacy Act. On this account we have excluded deaths due to ptomaine-poisoning, alcohol, insect-stings, coal-gas, poisonous berries, mushrooms, etc. The figures given for "kind not stated" prevent an accurate analysis being made of the statistics, but the three years' figures given in the next column are comparable. Some of the figures are indeed remarkable. For example, the medical view that there are numerous deaths from acetanilide appears to be quite unfounded, only one death, by accident, being reported in three years. Cocaine appears also to be no more poisonous than Epsom salts, eucalyptus oil, or potassium bromide. The year 1915 shows a remarkable decline in the number of deaths from poison. It looks as though the greater precaution taken in the sale of ammonia and spirit of salt had prevented many deaths, but there are also fewer deaths from potassium cyanide and oxalic acid. It is rather surprising that there has only been one death from lead plaster in the last three years. It is possible, however, that the seven

manslaughter cases given as due to "abortion by drugs" may refer to the use of diachylon.

Poison	Negligence and Accident 1913	Suicide 1913	Negligence and Accident 1914	Suicide 1914	Negligence and Accident 1915	Suicide 1915
Acetanilide	—	—	1	—	—	—
Acetic acid	—	1	—	—	3	—
Aconite	2	1	1	—	3	—
Aconite and morphine	—	—	1	—	—	—
Ammonia	9	21	14	24	7	21
Ammonium bromide	1	—	—	—	—	—
Amylene hydrate	—	—	6	—	—	—
Anilin oil	—	—	—	1	—	—
Antimony	—	—	1	1	—	—
Antipyrin	—	—	1	1	—	—
Arsenic	3	6	4	8	3	3
Arsenic and nux vomica	1	—	—	—	—	—
Atropine	—	1	—	—	—	—
Barium chloride	—	—	1	—	—	—
Belladonna	10	7	4	6	3	7
Belladonna and aconite	3	—	—	1	3	1
Belladonna and chloroform	—	1	—	—	1	—
Belladonna and oxalic acid	—	—	—	—	—	1
Benzene	—	—	—	—	2	—
Blistering fluid	1	—	—	—	—	—
Camphorated oil	1	1	—	2	—	1
Cantharides	—	—	—	—	—	1
Carholacene	—	1	—	—	—	—
Carholic acid	10	64	15	56	13	52
Chloral	3	—	3	—	4	1
Chloral and morphine	—	1	1	—	—	—
Chlorine	—	—	—	—	1	—
Chloroform (not for operation)	1	2	1	1	2	2
Chloroform and pot. cyanide	—	—	—	1	—	—
Cocaine	—	—	1	—	—	—
Colchicum	—	1	—	—	—	—
Colza oil	—	—	—	—	1	—
Copper sulphate	—	—	—	—	—	1
Creolin	—	1	—	—	—	—
Creosote	—	—	2	—	1	—
Cresoline	—	—	1	2	1	—
Cresylic acid	—	—	—	—	1	—
Easton's syrup	—	—	—	—	1	—
Epsom salts	1	—	—	—	—	—
Eserine	—	—	—	—	1	—
Eucalyptus oil	—	—	—	—	1	—
Fluoric acid	—	1	—	—	—	—
Formalin	—	1	—	—	—	—
Fusel oil	—	1	—	—	—	—
Hyoscyamus	—	—	—	—	1	—
Hydrochloric acid	12	98	16	101	8	47
Hydrocyanic acid	4	35	2	22	4	17
Iodine	1	—	—	1	2	1
Izal	—	—	1	—	—	—
Jeyes' fluid	2	—	—	1	—	1
Lead lotion	—	—	—	—	—	1
Lead plaster	—	—	—	—	1	—
Lysol	5	5	2	2	4	3
"Mercurial poisoning"	—	—	—	2	—	—
Mercury perchloride	3	10	1	10	1	6
Muscarine	—	—	1	—	—	—
Nicotine	1	2	—	5	1	3
Nitric acid	2	3	2	2	5	3
Nitrobenzene	1	—	1	—	1	—
Opium, laudanum, & morphine	50	38	43	40	25	30
Oxalic acid	3	83	12	83	10	38
Paraldehyde	1	—	1	—	—	—
Phosphorus	—	3	1	5	—	2
Potash, American	1	—	—	—	—	—
Potash, caustic	—	1	—	—	—	—
Potassium bichromate	2	2	—	1	1	—
Potassium bromide	—	—	—	—	1	—
Potassium chlorate	—	—	1	—	—	—
Potassium cyanide	4	42	6	31	5	22
Potassium nitrate	1	—	—	—	—	—
Potassium oxalate	—	1	—	1	1	2
Potassium permanganate	—	—	—	1	—	—
Puritas	1	—	—	—	—	—
Quinine	1	—	—	—	1	1
Sanitas	—	—	—	—	1	—
Soda, caustic	2	—	1	—	5	—
Sodium bichromate	—	1	—	—	—	—
Squill, tincture	—	—	1	—	—	—
Strychnine and nux vomica	6	11	10	14	3	6
Sulphonal	—	—	2	—	—	—
Sulphuric acid	3	6	4	4	3	4
Thyrocresol	—	—	—	—	—	1
Trichlorethylene	—	—	1	—	—	—
Trional	1	—	—	—	—	2
Turpentine and liniment	—	—	1	—	2	1
Veronal	19	9	18	12	17	7
Veronal and morphine	2	2	—	—	1	—
White precipitate	1	—	—	—	—	—
Wintergreen oil	1	—	—	—	1	—
Zinc chloride	1	—	—	—	—	—
Kind not stated	28	43	39	65	23	36

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Commercial Travellers' Benevolent Institution.

This body was founded in 1849, and is the oldest charity connected with the knights of the road. Sir Richard Stapley is the President, and Mr. A. Seneschall Chairman of the Board, while Mr. H. J. Gardiner, of Bradbury, Greatorex & Co., Ltd., is Chairman of the special appeal now being made. The last-named states in a letter we have received that the need for relief by members and their widows is increasing rather than the reverse, whilst many travellers who are serving in the Forces on diminished pay, and for whom special provision has been made by the Board, are unable this year to give their wonted support, so that other travellers who are more fortunate, as well as their employers, are invited to give their help, which may be sent to the Secretary, Mr. Leonard Courtney, 11 Ironmonger Lane, Cheapside, London, E.C. Since the Institution was founded more than 435,790*l.* has been paid to annuitants, and at the present time more than 500 are receiving upwards of 14,000*l.* per annum, while thirty candidates are awaiting election in June.

Contracts.

The following contracts have been accepted by the Boards of Guardians in the places specified:

Alresford (Hants).—Trimming & Co., Ltd., drugs and medical requirements.

Alton (Hants).—Trimming & Co., Ltd., drugs and medical requirements.

Atherstone.—Mr. Parkins, chemists' goods.

Barnstaple.—Mr. E. M. Proudman, cod-liver oil, 20*s.* per gal.; quinine, 6*s.* per oz.

Berwick-on-Tweed.—Mr. Nicol M. Craig, medicines.

Birkenhead.—R. Sumner & Co., drugs and sundries.

Brentford.—Middleton Bros., disinfectants, 77*l.* 18*s.*; McDougall Bros., ditto, 71*l.* 19*s.*; Nestlé's and Anglo-Swiss Condensed Milk Co., one ton condensed milk, 73*l.* 11*s.* 8*d.*; Oxo, Ltd., meat extract, 3*s.* 6*d.* per lb.

Croydon.—Jardox, Ltd., meat extracts.

Evesham.—Mr. W. J. Craven, drugs.

Hendon.—Burgoyne, Burbidges & Co., Ltd., drugs.

Richmond-on-Thames.—Corbyn, Stacey & Co., Ltd., drugs.

Sheffield.—J. Gilbert Jackson, Ltd., *x*-ray goods; the Northern Rubber Co., rubber goods; the "Sanitas" Co., Ltd., floor-polish and soap; McDougall & Co., pine powder; Credland & Sons, turpentine, hydrochloric acid, and white lead.

Stafford.—J. & H. A. Averill, drugs and appliances.

Strood.—Cuxson, Gerrard & Co. and Burgoyne, Burbidges & Co., Ltd., surgical and other appliances; the "Sanitas" Co., Ltd., disinfecting fluid.

Woolwich.—Middleton Bros., soap, 147*l.* 10*s.*; J. Knight, Ltd., ditto, 80*l.* 5*s.*

Other contracts arranged include

Croydon Borough Hospital.—Society of Apothecaries, drugs and druggists' sundries.

Derby Town Council.—Adcocks, Ltd., Metsol Ltd., the "Sanitas" Co., Ltd., and Jeyes' Sanitary Compounds Co., Ltd., disinfectants.

East Ham Town Council.—F. W. Berk & Co., Ltd., annual supply of lime for sewage-precipitation, 27*s.* 6*d.* per ton.

Hammersmith Borough Council.—Adcock, formaldehyde fluid, 9*s.* 11*d.* per gal.; carbolic acid, 2*s.* 3¾*d.*; carbolic powder, 5*l.* 11*s.* 11*d.* per ton; carbolic powder in 1-lb. pkts., 10*s.* 11*d.* per gross; sulphur disinfecting-candles, 2*l.* 1*s.* 11*d.* per gross; permanganate of potash, 4*l.* 19*s.* 11*d.* per cwt.; disinfecting-fluid, 1*s.* 1*d.* per gal.

Macclesfield Borough Hospital.—Mr. Ernest Brian, druggists' sundries.

Metropolitan Asylums Board.—The British Drug Houses, Ltd., drugs for three months; the "Sanitas" Co., Ltd., disinfectants for twelve months (estimated value of contract, 270*l.*); W. Gossage & Sons, Ltd., soap for three months (estimated value of contract, 1,000*l.*); Wilkie & Soames, Ltd., ditto, 630*l.*; J. F. Percival, Ltd., ditto, 17*l.*

Salford Town Council.—Mr. S. H. Powell, soap, 235*l.* 17*s.* 5*d.*

Birmingham.

The subscription-list of local pharmacists for the expenses of a pharmaceutical parliamentary candidate is growing apace.

Mere man is almost entirely superseded in our local pharmacies by the recondite lady dispenser and affable saleswoman, to the advantage of all concerned. The trained hospital nurse is now aspiring to the rank of dispenser.

In his remarks to the shareholders of Southall Bros. & Barclay, Ltd., at the annual meeting, Sir Thomas Barclay showed some excellent specimens of chemicals which had been made in the company's new laboratories. Amongst the samples were xeroform, cystoformin, chloramine T., salicylic acid, aspirin, sodium salicylate, calcium lactate, and calcium glycerophosphate. The specimens are now being exhibited at the Easy Row apparatus department, which is under the managership of Mr. W. Partridge.

Index Folio 347

Birmingham Chemists' Ambulance Parade.

The first public parade of the Birmingham Chemists' Volunteer Field Ambulance was held on Good Friday, when a good muster turned out for a field-day. The members assembled at Thorp Street Drill Hall, the motor transport being also in attendance. Under the command of Adjutant Rayne a move was made to Yardley, where Sergt.-Major Grainger gave instructions and various evolutions were carried out before luncheon. The sergeant-major afterwards unfolded his scheme of operations, which was as follows: It was supposed that an engagement had been fought, and that the army had advanced, leaving behind their casualties. The duty of the Ambulance was to find and succour the "wounded," to render first-aid, and convey them to the dressing-station. The "casualties" were each supplied with a slip setting forth their supposed injuries, which embraced shell, shrapnel, and rifle wounds. The dressing-tent was then pitched and the "patients" posted. The various squads then moved off prepared to do their best. The wounded having been collected and brought to the hospital, the sergeant-major criticised each case and pointed out mistakes in the "treatment" to be rectified. He expressed the opinion that the work was most praiseworthy. The day was voted a great success, and hopes were freely entertained that another field-day would be organised at the first opportunity. The march back to the city was done at a good pace, where after dismissal all expressed themselves as tired but happy.

Liverpool.

The shortage of spirit is hampering the trade to an increasing extent. No way out of the difficulty yet appears.

Eighty nurses, accompanied by two doctors, have passed this Eastertide through Liverpool *en route* for London. The nurses were smartly uniformed; "almost like admirals," as a dockmaster remarked. Liverpool, with its numerous and up-to-date hospitals and dispensaries, presented so many attractions to the party that the seven hours allowed barely sufficed for the sights. The express train with the reserved carriages was missed by three minutes, and the "follower" had to be taken.

As already stated, the first general meeting of the Lancashire Federation on Wednesday, April 18, is to be followed by the final meeting for the session of the Liverpool Chemists' Association. The President of the latter (Mr. Wm. P. Evans) hopes that the officers and many of the delegates to the Federation gathering will remain for the Liverpool Association's rally. A musical programme, confined to members of the Association, will form a leading feature, and ladies, in addition to the lady members, are to be invited.

To the agreement of the Waterloo, Seaforth, and Great Crosby pharmacists to close daily from 1 to 2 P.M. there has to be an occasional exception. In the case of pharmacies to which a branch post-office is attached the Postmaster-General only allows half an hour's closing, but this may be extended upon representation of the fact that the closing of all suburban shops for an hour for dinner is becoming general. Meanwhile the pharmacist sub-postmaster takes his midday meal from 1 to 2 P.M., and his assistant is off from 1.30 to 2.30.

Manchester.

Rain, hail, and snow were the "glorious weather" of Eastertide, so now pharmacists are very busy catering for the wants and ailments that have followed.

Professor Arthur S. Green, F.R.S., who has been presented with the Perkin Medal of the Society of Dyers and Colourists, is the first Englishman to receive this.

There will be no Council election this year in connection with the election of officers of the Manchester Pharmaceutical Association. All the present members are willing to serve again, and as only one new candidate has been nominated he has decided to stand down.

Arthur Richardson, a young man, died from loss of blood following the extraction of a tooth. He had been subject to bleeding, and had been warned that the extraction of a tooth would probably cost him his life, but he did not tell the dentist. A local jury on April 10 returned a verdict of death from misadventure.

The fiftieth annual report of the Council of the local Association has been issued to the members, and provides an excellent account of the work of the past session. The membership of the Association is now 185, compared with 177 at the end of last session. The Treasurer's account shows a deficit of 6*l.* 0*s.* 7*d.* Notwithstanding, it is fortunate that the Association in its jubilee year has a bank balance of 64*l.* 0*s.* 7*d.* to meet such heavy calls. The report contains the portrait of the President (Mr. William Kirkby, Ph.C., M.Sc.), which has already appeared in the *C. & D.*, and is from a Cleworth photograph.

Sheffield.

A fire occurred at the John Street works of J. B. Wheen & Sons, Ltd., wholesale chemists. The fire-brigade attended with two engines, and found about 9 cwt. of resin on fire in two pots, due to overheating.

Sergt. J. Massey, dispenser at the 3rd Northern General Hospital, who was the popular Secretary of the Pharmaceutical Athletic Club prior to the war, is a member of a glee quartette, devoting his leisure hours to entertaining wounded soldiers.

Best wishes will be extended to Miss Jessie Boulter, F.S.M.C., as the first woman pharmacist to commence business in Sheffield. She has purchased from Mr. J. T. Appleton (who is studying for medicine) the pharmacy at 3 Wadsley Lane, which she has successfully managed for some time. Miss Boulter was apprenticed to Mr. F. B. Roebuck, Abbeydale Road, and has taken an active interest in local pharmaceutical affairs.

Pharmacists are working under very trying conditions. Trade generally is very good, but the delay in securing goods is marked. The local supply of sugar is much below what the city is entitled to on account of influx of munition-workers, so the failure of wholesale houses to supply syrups and other preparations containing sugar cannot be got over by the chemist manufacturing his own preparations. It is hoped that some relief will soon be found.

Miscellaneous.

Preston Chemists and Druggists now close at 8 P.M. daily, except 9 P.M. on Saturday. This is by order of the Town Council.

Fire.—The premises of Bellamy & Co., Ltd., manufacturing chemists, New Street, Cardiff, were severely damaged by fire on Saturday, April 7, the damage being estimated at 3,000*l.*

The Mile End Guardians have granted, subject to the sanction of the Local Government Board, a gratuity of forty guineas to Mr. B. Myers, dispenser, for extra duties in connection with the reception of wounded soldiers.

The Medical Preliminary.—The Joint Matriculation Board of the Universities of Manchester, Liverpool, Leeds, Sheffield, and Birmingham has revised its regulations for entrance to the Faculties of Medicine, and no longer requires that Latin should be taken as an obligatory subject. The conditions imposed by the Board for entry to the Faculty of Medicine are now identical with the general conditions for entrance to the several Faculties of the Universities.

Volatile Thinners in Oil-varnishes.—Messrs. Armand de Waele and Frederick Smith, A.I.C., communicated a paper on the determination of these to the Society of Public Analysts and other Analytical Chemists on April 4. Their own method is given as follows:

"Three to 4 grams of varnish are weighed into a 200-c.c. silica carbon-dioxide flask containing a piece of broken glass; 60 to 70 c.c. of boiling water are added, and boiled over a small free flame until the vapour no longer smells of volatile solvent. The remaining water is poured off, cooling if necessary, and any included water in the residue removed by boiling off on a water-bath with successive small quantities of alcohol and acetone until free from cloudiness. The acetone-vapour in the flask is then blown out, and the flask cooled and weighed."

Exportation of Tinctures.—The following is an amendment of the tincture instructions which the Board of Customs and Excise has approved:

"In any case in which evidence of shipment is wanting in respect of part of a consignment, drawback and allowance may be paid at the expiration of one month from the date of shipment in respect of the part of the consignment certified by the Shipping Officer to have been duly shipped. A note of the circumstances should be made in red ink on the relative form 111-6, and in the Register of Tinctures, etc., Exported, and the exporter should be informed that he may obtain payment. If after the papers have been dealt with by the collector, evidence of exportation as regards the remaining part of the consignment is forthcoming (other than an official certificate of shipment, when the standing regulations would apply), the circumstances are to be reported to the Board."

Poisonings.—Among the cases reported to us this week of deaths from poisoning is that of a Holloway woman who committed suicide with spirit of salt. The acid caused internal hæmorrhage, which terminated fatally.—From Jarrow a case is reported in which a young child was poisoned by cresolene, which the mother administered in place of cough-mixture. There was a conflict of evidence, the mother, an Italian, who spoke broken English, stating that she asked the chemist for licoricine, whilst the chemist at the inquest said there was no doubt in his mind that the woman asked for cresolene. The father also told the police that his wife asked for cresolene, but this statement he afterwards corrected. Death from misadventure was the verdict.

Irish News.

Pharmaceutical Society of Ireland.

The following is the result of the Preliminary examination held recently: *Passed*: Mary Agnes Halligan, Dublin; Hugh Brownlow McMullan, Banbridge; Elizabeth Frances Shannon, Dublin; Brigid Corrigan, Enniskillen; Margaretta Hanna, Castledawson; Michael Joseph McCarthy, Ennistymon; Mary Finnegan, Emyvalo; Robert Morrow, Belfast; James John Cronin, Maryboro'; Mary Paul Christy, Mallow; Gabrielle Ryan, Castlebar; John Gubbins, Emly; Matthew Curran, Ennistymon; James Ryan, Dublin. Sixteen candidates were rejected.

Drug and Surgical-appliance Contracts.

The following are additional contracts for drugs and surgical appliances which have been entered into by Irish Boards of Guardians. The percentages indicated are the discounts allowed by the contractors off the standard list of the Local Government Board:

Union	Medicines	Surgical Appliances
Ballina ...	Boileau & Boyd, 8¾%	J. Clarke & Co., 17½%
Banbridge ...	Boileau & Boyd, 10¼%	J. Clarke & Co., 21½%
Bawnboy ...	Sumner & Co., 10 %	J. Clarke & Co., 16%
Belmullet ...	Boileau & Boyd, 7½%	Same contractors
Castleblayney	F. Storey, Ltd., 12½ %	J. Clarke & Co., 21½%
Cavan	F. Storey, Ltd., 12½%	J. Clarke & Co., 23¼ %
Downpatrick ...	F. Storey, Ltd., 16 %	J. Clarke & Co., 23½%
Dronmore (W.)	Sumner & Co., 10 %	Adamson & Co., 15½ %
Larne	F. Storey, Ltd., 15½ %	J. Clarke & Co., 23¾ %
Lismore ...	Boileau & Boyd, 11½ %	Fielding's Pharmacy, 20¼%
Newtownards	F. Storey, Ltd., 15 %	J. Clarke & Co. 23¾ %
Rathdrum ...	Boileau & Boyd, 8¾%	Same contractors, 12½%
Thomastown ...	Boileau & Boyd, 6¾%	Fannin & Co., 12½%
Tralee	Boileau & Boyd	Fannin & Co.
Trim	Boileau & Boyd, 7½%	Sumner & Co., 15 %
Tuam	Sumner & Co., 12½ %	Adamson & Co., 17½ %

The Ballina and Rathdrum Guardians accepted the tenders of Boileau & Boyd, Dublin, although a higher discount was offered by Sumner & Co., Liverpool, the Guardians being influenced by the fear that delay would be caused in obtaining their supplies from across the Channel.

Scottish News.

Brevities.

A Glasgow grocer invites the public to buy his saccharin tablets for sweetening-purposes.

In spite of increased prices and prohibited areas there was a brisk demand for Easter photographic materials.

Medical practitioners in the West of Scotland have protested that compulsorily to mobilise the medical profession in advance of the rest of the community would be unjust.

There have been some sharp increases in retail prices recently. Honey is 1*s.* 9*d.* to 2*s.* per lb., cotton-wool 2*s.* to 2*s.* 6*d.*, malt and oil 1*s.* 9*d.* per lb., and zinc ointment 4*d.* per oz.

Infusum digitalis recentis is having a new lease of life. Many medical men are prescribing it for kidney and heart affections. Chemists receiving prescriptions should be particular to make the fresh infusion.

The property in Strichen, Aberdeenshire, belonging to and formerly occupied for over thirty-five years by Mr. A. M. Lee, chemist and druggist, has been purchased by Mr. W. A. K. Farquhar, chemist and druggist there.

The Dundee monthly list of latest retail prices has been circulated this week. The accompanying circular mentions (1) that it is proposed to open a list of surplus stock which members may wish to dispose of; (2) that the hour for closing of shops remains at eight (Saturdays nine), and is not affected by the Summer Time Act; (3) that toilet-soaps formerly sold at 2*d.* should be charged 3½*d.* now.

The Private John Clark referred to in this column last week is not the son of Mr. A. D. Clark, chemist, Galashiels. Mr. Clark's only son is Private Geo. B. Clark, who had been farming in Canada for more than ten years before the war broke out, and was in France with the Canadian contingent from January to June 1916, when he was reported missing. No further news in regard to him has been received.

Co-operation in Pharmacy.

The Northern Co-operative Co., Ltd., Aberdeen, has issued its accounts for the half-year which ended on February 28, 1917, this showing the cash drawn at the headquarters, 33 Rosemount Viaduct, and four branches to be 4,931*l.* 0*s.* 3*d.*, compared with 5,137*l.* 2*s.* 11*d.* in the corresponding period of 1915-16. Trade discounts and amount due by the Insurance Acts Committee bring the total up to 5,068*l.* 8*s.* 8½*d.*, and against this there are outlays amounting to 4,324*l.* 16*s.* 4½*d.*, thus showing a balance of 743*l.* 12*s.* 4*d.* carried to credit, compared with 1,023*l.* 19*s.* 9*d.* in the corresponding period of last year. The principal outlays were 708*l.* 2*s.* 10½*d.*, and 380*l.* 1*s.* 1½*d.* for wages, and rent, taxes, lighting, repairs, labels, stationery, advertising, and other small charges, comparing with 346*l.* 8*s.* 0½*d.* in the 1915-16 account. Labels, wrapping-paper, twine, etc., increased from 100*l.* 16*s.* 4½*d.* to 151*l.* 0*s.* 0½*d.* The receipts for the year (March 1916 to February 1917) amounted to 10,234*l.* 1*s.* 2½*d.*, and the net profit to 1,668*l.* 19*s.*

Edinburgh.

Some chemists are pushing the sale of flower and vegetable seeds at present.

Edinburgh and Leith chemists will close all day on Monday, April 16, the Spring Holiday.

Major A. T. Sloan, R.F.A., son of Dr. A. T. Sloan, is reported to be a prisoner of war at Karlsruhe.

Mrs. Mason, Dalmeny, and her daughter, who were killed on Waverley Bridge by a motor omnibus last week, were relatives of Mr. David Mason, chemist and druggist, Raeburn Place, Edinburgh.

The sale of cochineal, etc., was decidedly off last week-end, doubtless on account of the increased price of eggs. Chemists report selling only a fourth or less of the quantity of dyeing-material that was formerly the average.

At the Royal College's "Triple Qual." examination last week several pharmacists passed parts, including Mr. Samuel Crossman, Johannesburg, First Professional; Messrs. Thomas Draper, Ph.C., Uppingham, Henry Dryerre, Bonnyrigg, and R. B. Forgan, Leith, Second Professional; and Mr. A. F. Caddell, Edinburgh, Third Professional.

Mr. R. Glode Guyer (Duncan, Flockhart & Co.) communicated to the Scottish Horticultural Society last week a paper on "Medicinal Plants and National Requirements." Unfortunately, an illness prevented Mr. Guyer being present. The paper dealt with the conditions of supply before the war and the efforts which have been made since it commenced to make good the deficiencies due to absence of supplies previously obtained from alien enemies. He mentioned what has been done by the Evesham Smallholders' Association (*C. & D.*, March 10, p. 69), and said that—

"Notwithstanding this, there is a small residuum of 'Doubting Thomases' who believe that after this great war is over we shall return to former conditions, and again obtain our supplies from Germany; in fact, some even advocated this policy. But it is to be hoped that this will not be tolerated in future."

As a proof that the raw material could be quite well produced here, he quoted from Sir Edward Evans's address to the British Pharmaceutical Conference in Edinburgh in 1913, when he stated that "the soil of this country seems adaptable to this purpose, as what it does produce is superior to any produced elsewhere."

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Insurance Advisory Committee.

Sir Edwin Cornwall informed Sir Philip Magnus on April 4, in the House of Commons, that there is considerable divergence of opinion as to what is adequate representation on the smaller Advisory Committee. He is considering representations made by the medical profession.

Industrial Alcohol.

In the House of Commons on April 4, Mr. Bonar Law informed Mr. Lewis Haslam, M.P., that the desirability of obtaining expert opinion as to the value of alcohol for motive-power and in connection with industries, and the probable extension of its use for such purposes if produced under State control and sold at a low price while still providing a source of revenue, would receive full consideration.

Parliament will reassemble on April 17.

Ceylon Minor Products.—Among the exports from Ceylon during 1916 were 123,205 cwt. of areca-nuts, 313 cwt. of papain, 261 cwt. of nux vomica, and 9,173 lb. of cinchona-bark.

Colonial and Foreign News.

During 1916 the imports of drugs, chemicals, and apothecaries' wares into the Union of South Africa amounted in value to 1,164,077*l.*, against 1,072,957*l.* in 1915.

Cellulose from Seaweed.—A patent has been granted in Italy for a process, the discovery of a local inventor, for the production of cellulose-pulp from seaweed, for the manufacture of paper. The patentee intends to establish a factory for producing cellulose, and also a paper-mill.

Saccharin in Russia.—Russia has suspended, during the period of the war, the restrictions and prohibitions on chemically pure saccharin which are enjoined by existing laws and regulations governing the production and sale of artificial sweetening substances. The Department of Public Health is to draw up regulations for supervision of the production, import, transport, and keeping in stock.

New Regulations respecting the stamp-tax on perfumery and pharmaceutical specialities have been issued in Italy. They provide that the tax shall be reduced to five centesimi in respect of perfumery and medicinal specialities the retail selling-price of which (excluding tax) is more than twenty centesimi per unit, but not more than fifty centesimi. Goods the retail selling-price of which does not exceed twenty centesimi are exempt from the tax.

Indian Opium for Dutch Colonies.—Sir William Meyer noted in the course of his Indian Budget speech that an agreement was concluded with the Government of the Netherlands Indies, with effect from January 1, 1917, similar to those already effected with the Straits Settlements and Hong-Kong, under which the Government will now take from India at an agreed fixed price all the opium it requires. [In pre-war times the Dutch Government bought regularly in Smyrna and Constantinople.—Ed.]

Quinine Industry.—The "Tydschrift voor Nyverheid en Landbouw in Nederlandsch Indie" publishes an account of experiments that have been made in the tea-plantation, Malabar, with the preparation of quinine from fresh cinchona-bark, which have met with good results. The crude quinine, it is stated, is almost white. Following this example the owners of other cinchona-plantations intend to make quinine to obviate the necessity for drying and transporting the bark. Objections have been raised against the planters making their own quinine, as in this way different sorts of quinine from Java would come into commerce. A central refinery will, however, be founded in Bandoeng or Pengalengan to deal with the crude product of all plantations.

State Sugar in Italy.—In order to meet the deficiency in sugar, the Minister of Finance, by a decree of February 4, has sanctioned the manufacture, by persons who are competent in matters of hygiene, of a saccharine product which, besides having sweetening properties three times as great as sugar, will be sold at a price below a third of the normal cost of sugar. The new product, put up in closed boxes containing a kilogram of cubes, will be put on the market under the name of State sugar. The decree, which provides for the manufacture and sale of pure saccharin, sodium-saccharin, and State sugar, stipulates that the manufacture of these can take place only in special establishments subject to and under the supervision of the Finance Office.

German News.

Sandalwood Oil is found to be much adulterated in Germany at present.

German War-dressing Material no longer answers the Pharmacopœia standard.

War Victims.—From the outbreak of war until January 1, 1917, 29 military pharmacists and 492 pharmacists or pharmaceutical students in active service for Germany have been killed or died of disease; 973 physicians, 97 university professors and assistants for the faculties of natural philosophy, and 331 chemists have been killed.

Porcelain Ware.—According to the "Frankfurter Zeitung" a South German firm has succeeded in producing porcelain vessels, especially crucibles, in which, by means of an oxy-hydrogen blowpipe, it is possible to make holes without cracking the vessel. By a similar process pieces of porcelain can be fused together and worked in the same way as glass.

Supply of Potassium Salts.—Shortage of railway trucks in Germany since the beginning of January has compelled the Potash Syndicate to refuse orders for 40-per-cent. potassium-manure salts. At the beginning of March it had orders in hand for 3½ million double centners. The Syndicate is also behind in the supply of kainit hard salts, but a great number of special trains has been promised by the Government. In order to ensure the supply of fertilisers, so urgently needed by potato-growers, the Syndicate reduced in March the inland prices for sulphate of potassium to one-half the export prices—viz., for sulphates containing 48 to 51 per cent. pure potassium, 18.24m. to 19.38m. per double centner; 52 to 54 per cent. pure potassium, 20.59m. to 20.81m. per double centner; for potash-magnesia sulphate, containing 26 to 29 per cent. pure potassium, 9.10m. to 10.5m. per double centner. The Syndicate has petitioned the Reichstag to allow higher prices.

Food-control.—The place of the trader under public control of the food-supply has been a good deal discussed lately in the German papers, and the conclusions which a considerable section of the Press seems to have reached may be of interest to pharmacists. The chief evils of public control, according to the German Press, are these: The retailer and consumer have to take the goods supplied to them irrespective of quality, and nobody has any financial interest in handling them, good or bad. All the abuses inseparable from bureaucracy creep in. The private trader has much more special knowledge than the official, especially as regards the best sources of supply. The wholesaler is practically ruled out, and it is often difficult for the distributor to get the goods needed from the Imperial offices. The general opinion appears to be in favour of conducting supply through the ordinary trade channels, under a system of maximum prices, which, however, ought to be made applicable to every stage of production and distribution, so as to ensure a working profit all round with no chance of anybody making too much out of it.

Legal Reports.

Cream of Tartar.—At Stewartstown, Robert Stevenson was summoned for having sold cream of tartar containing 70 parts of lead per million. The Magistrates, by a majority, held that the offence was purely technical, and dismissed the case on payment of 12*s.* 6*d.* costs.

Herbalist Fined.—At Bath on March 30, Perkins Stretton was fined 10*l.*, with costs 7*l.* 6*s.*, for using the title medical practitioner on a medical certificate, thereby implying that he is registered under the Medical Acts; and he was also fined 15*l.*, and 5*l.* 5*s.* costs, for using the designation "M.B." without being a legally qualified medical practitioner. Defendant stated that "M.B." denoted medical botanist.

Sir Joseph Beecham's Estate.—A motion for the appointment of two gentlemen as receivers and managers of the estate of the late Sir Joseph Beecham, Bart., was mentioned to Mr. Justice Peterson in the Chancery Division of the High Court, London, on April 4. Mr. Maugham, K.C., stated that the motion was the result of serious monetary disputes between the parties who were beneficiaries, but although the terms were not yet signed a settlement had in fact been arrived at, and it would not, he believed, be necessary to bring on the motion. He asked that the motion should stand over generally, with liberty to restore in the event of the settlement falling through, which, however, was not anticipated. His Lordship assented. Seven King's counsel, six junior barristers, and four sets of solicitors appeared on the motion.

Salvarsan and Serum in Prize Court.—Sir Samuel Evans, in the Prize Court, London, on April 4, was asked by the Crown to order the sale of 500 phials of salvarsan, together with tuberculosis and typhus serums, seized in the letter mails on board the steamship *Rotterdam*, and posted, it was contended, from Germany to America. Mr. Trehern, for the Crown, said the consignors were Meister, Lucius & Brüning, Hochst-on-Main. Of the salvarsan seized a thousand phials had been requisitioned by the Government; that left 500 phials, and as to that he asked for an order for sale on the ground of the enemy origin and property of the drugs. Of the consignee nothing was known. Sir Samuel inquired whether the Government did not want the other 500 phials of salvarsan. He supposed if they were sold the Government would buy them at whatever price they would fetch. He ordered the sale of the salvarsan and the typhus and tuberculosis serums, with payment of the proceeds into court, to remain there until the conclusion of peace.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

Perfect Food, Ltd. (P.C.).—Capital 3,000*l.* Objects: To take over the business of Levy & Co., Northampton Grove, N. The first directors are Isaac, Leon, and David Levy.

W. Georges Surgical and Drug Stores, Ltd. (P.C.).—Capital 500*l.* W. R. Harrison, 442 High Street, Lewisham, S.E., is the first director. R.O., 10 Green Street, Leicester Square, W.C.

W. T. Scales & Co., Ltd. (P.C.).—Capital 2,000*l.* Objects: To take over the business of W. T. Scales, manufacturers of and dealers in copperas, etc., Cleveland Works, Birkenhead. W. T. Scales is the first director.

Anthony & Co., Ltd. (P.C.).—Capital 4,000*l.* Objects: To take over the business of a chemist and fancy-goods dealer, carried on by J. M. T. Purvis at 39 St. Mary Street, Cardiff. The subscribers and first directors are J. M. T. Purvis and D. Edmunds.

British Resorcin Manufacturing Co., Ltd. (P.C.).—Capital 5,000*l.* Objects: Chemical manufacturers, manufacturers of resorcin and its derivatives, etc. The first directors are Miss E. J. Smith and L. E. Garratt. R.O., 162 Villiers Road, Willesden Green, N.W.

Chemical Products, Ltd. (P.C.).—Capital 2,000*l.* Objects: Manufacturers of caffeine from tea and other produce, etc. Agreement with J. J. Marsh. The first directors are Norman McLeod and P. Russel (partners in the firm of McLeod, Russel & Co., tea agents) and J. J. Marsh. R.O., 208 Tower Bridge Road, S.E.

Cephos, Ltd. (P.C.).—Capital 2,500*l.* Objects: To take over the business of manufacturers of and dealers in patent medicines and proprietary articles, including a neuralgia, headache, and rheumatism cure, carried on at Blackburn by H. and W. Livesey and H. V. Miners (the first directors) as the "Cephos Co." R.O., 33 Richmond Terrace, Blackburn.

Horne's Luminous Co., Ltd. (P.C.).—Capital 2,500*l.* Objects: To take over the business of manufacturers of and dealers in luminous paint, radio-active and phosphorescent compounds, etc., carried on by W. C. Horne at St. Katherine, London Road, North Cheam, Surrey. The first directors are W. C. Horne, R. W. Horne, and W. Goss. R.O. as above.

Taldua Rubber Co., Ltd. (P.C.).—Capital 40,000*l.* Objects: To acquire any concessions, leases, and rights in Ceylon, the Straits Settlements, and elsewhere, and to carry on the business of planters of and dealers in rubber, tea, camphor, aloes, cinchona, etc. The first directors are F. J. Wright, W. P. Millington, and J. L. Loudoun-Shand. R.O., 24 Rood Lane, E.C.

British Potash Co., Ltd. (P.C.).—Capital 50,000*l.* Objects: To carry on the business of manufacturers of and dealers in potash, soda, and other alkalis, fertilisers, etc. Agreement with the British Cyanides Co., Ltd., and the North Lincolnshire Iron Co., Ltd. The first directors are K. M. Chance, C. F. Rowsell, and A. L. Leigh. R.O., 49 Queen Victoria Street, E.C.

Lake, Millar & Co., Ltd., chemists, 77 Hamstead Road, Handsworth.—A meeting of the creditors was held on April 5 at the offices of Mr. A. J. Hatwell, solicitor, 55 Temple Row, Birmingham. Mr. G. W. Elcock, the liquidator, submitted a statement showing liabilities 282*l.* 1*s.* 11*d.*, and net assets 171*l.* 8*s.* 10*d.* It was reported that the company was registered in November 1910, the business having previously been in the ownership of Mr. G. J. Lake for fifteen years. Since the business was taken over as a limited company it had never traded at a profit. Owing to the death of Mr. Lake's wife in February, it was decided to call an extraordinary meeting and wind up the affairs. The business was advertised for sale, but no response was made, and the stock, etc., was sold by public auction. It was resolved to confirm the appointment of Mr. Elcock as liquidator, with a Committee of inspection. The following are creditors: W. J. Bush & Co., Ltd., 12*l.*; E. H. Butler & Son, 9*l.*; Chemists' Sundries, Ltd., 9*l.*; Crisp & Co., 5*l.*; John Dickenson & Co., 5*l.*; Robert Gibson & Sons, Ltd., 6*l.*; Alf. Jay & Son, 10*l.*; Leyland and Birmingham Rubber Co., 8*l.*; May, Roberts & Co., Ltd., 10*l.*; Potter & Clarke, Ltd., 17*l.*; Raimes & Co., 8*l.*; John Morgan Richards & Sons, Ltd., 12*l.*; R. Tomlinson & Sons, 13*l.*; X.L. Rubber Co., 8*l.*; South Birmingham Money Society, 45*l.*

Births.

Banks.—At Cleveland House, Beaufoy Street, Wick, on April 4, the wife of George Banks, pharmacist, of a daughter.

Beech.—At 156 Stockwell Road, S.W., on March 29, the wife of T. Beech, pharmacist, of a son.

Bryant.—At 102 Burlington Street, Manchester, on April 6, the wife of E. Gower Bryant, Ph.C., F.C.S., the Northern College of Pharmacy, of a daughter.

Graves.—At Beech Villa, 48 Bond Road, Surbiton, S.W., on April 6, the wife of Herbert H. Graves, chemist, of a daughter.

Hobbs.—At 5 Victoria Terrace, Sliema, Malta, on March 24, the wife of A. Newbury Hobbs, dispensing chemist, of a daughter.

Kirby.—At "Pinehurst," St. Marks, Cheltenham, on April 3, the wife of John Kirby, chemist and druggist (Hedges, Chemists, Ltd., Birmingham), of a son.

Macdonald.—At Baronscourt, Renfrew, on April 3, the wife of Robert Macdonald, chemist and druggist, of a son.

Marriages.

Benson—Oldroyd.—At St. Barnabas' Church, Dulwich, on Easter Monday, Robert Hopo Benson, pharmacist and Assistant Secretary British Pharmaceutical Conference, to Leah Blakeley Oldroyd, of Dulwich.

Docherty—Steel Fortune.—At Greyfriars Hotel, St. Andrews, on March 30, Corporal Charles M. Docherty, N.S.R.G.A., to Henrietta, youngest daughter of the late Rev. Richard Steel, Forfar, and adopted daughter of the late Robert Fortune, chemist, Anstruther.

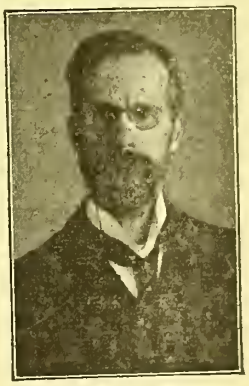
Greaves—Bartley Williams.—At St. Mary's Church, Lichfield, on April 11, William Lancaster Greaves, dispensing chemist, son of Mr. William Greaves, Brooklands, Chesterfield, to Margaret Glyna, eldest daughter of Mr. and Mrs. Lloyd Williams, Bore Street, Lichfield.

Loxley—Roberts.—On March 28, by licence, Frederick Lionel Keith Loxley, Ph.C., 66 St. Giles, Oxford, to Edith Florence, elder daughter of Mr. and Mrs. Robert Roberts, of Crawley Downs, Sussex.

Mutch—Cheyne.—At the U.F. Manse, View Terrace, Aberdeen, on April 6, John Gall Mutch, pharmacist, to Jeane Paterson, youngest daughter of Mr. James Cheyne, tailor's cutter.

Deaths.

Bousfield.—At Erdington, Birmingham, after a short illness, Mr. William Bousfield, aged sixty-four. It was reported in the *C. & D.* of March 31 that Mr. Bousfield had had a recurrence of gastritis, and from this attack he did not recover. He was apprenticed in 1867 to Mr. Kirkus, Ph.C., Carr Lane, Hull, and afterwards was for thirty-two years with Mr. T. J. Smith, wholesale druggist, North Church Street, Hull, but during the past few years had represented a London firm of manufacturers of culinary essences and allied domestic products. More than thirty years ago Mr. Bousfield began to contribute to The Chemist and Druggist, his pseudonym being "Soda Carb.," and throughout all these years he had continued his correspondence with us, although latterly his contributions as "Soda Carb." had ceased. He was particularly well informed in regard to the manufacture of cod-liver oil and business in it, and on more than one occasion visited Norway for the purpose of seeing at first-hand the cod-liver-oil industry, and papers by him on this subject were contributed to us. From the more important of these, which appeared in the *C. & D.*, April 22, 1905, entitled "A Visit to the Lofoten Islands," we reproduce the accompanying portrait, which is still a good likeness of Mr. Bousfield. He is survived by his wife



Mr. W. Bousfield.

and a family. Mr. A. J. Bousfield, A.M.I.E.E., of Gillingham, Kent, is one of his sons. Through his daughter, a nurse, he had during the past few years taken special interest in surgical instruments, and had devised a bandage-winder, the production of surgical dressings being one of the subjects to which he had paid special attention since the war commenced.

Cook.—At Grimsby recently, Mr. Markham Cook, J.P., chemist and druggist, who was in business before 1868, aged seventy-six.

Durbin.—On April 5, Mr. Henry Eastman Durbin, Ph.C., 131 High Street, Putney, London, S.W., aged forty-three. Mr. Durbin had been suffering from a nervous breakdown, due to overwork, and was thought to be in no immediate danger, but on April 3 he had a sudden relapse and died two days later.

Golding.—On March 26, Mr. Cyril J. Golding, chemist and druggist, Forest Row (Sussex), aged thirty-six. Mr. Golding, who died from cerebral hæmorrhage, had been in business at Forest Row for about seven years, and was formerly at Bury St. Edmunds. He was associated with the Volunteers and the Voluntary Aid Detachment of the Red Cross Society.

Lloyd.—At 12 Lammas Street, Carmarthen, on April 4, Miss Gwladys H. Lloyd, eldest daughter of Mr. Walter Lloyd, J.P., dispensing chemist, aged thirty-one. Miss Lloyd, who was a strenuous Church worker, had been in ill-health for about a year before her death.

Millard.—At 30 Dalebury Road, Wandsworth Common, London, S.W., on April 10, Mr. Oliver Lewis Millard (senior director of Millard Bros., Ltd., 123 Houndsditch, E.C.), aged fifty-six.

Wilson.—At Blackpool on March 28, Mr. James Wilson, chemist and druggist, Alpha Cottage, Kirkintilloch, aged twenty-six.

Young.—At Claremont, Banbury Road, Oxford, on March 23, Mr. Herbert Edward Young, chemist and druggist, aged fifty-eight. About 1886 Mr. Young took over the business of Mr. S. C. Furmston, White Hart Street, High Wycombe, and later became senior partner of Lansdall & Co., Queen Square, High Wycombe.

Died on Service.

Alexander.—At sea, on board one of H.M. transports, on March 22, Mr. James A. Alexander, second engineer, younger son of ex-Provost Alexander, chemist and druggist, Banff, aged thirty.

Bishop.—Killed in action on March 29, Second-Lieutenant Charles Trevor Bishop, of the Wiltshire Regiment, aged twenty-seven. He was the only surviving son of Mr. William Bishop, chemist and druggist, Welshpool, Montgomeryshire, and was a pharmaceutical chemist. He was educated at the Welshpool Grammar School, and, after his apprenticeship, entered the School of Pharmacy, Liverpool, and passed the Minor examination in January 1913. He then came to Bloomsbury Square to study for the Major examination, which he passed in April 1914. He took certificates in practical chemistry and materia medica at the Square School, and was appointed a demonstrator in chemistry. He was one of our "Corner for Students" prizemen. When the war broke out he resigned his appointment at the Square and enlisted in the 1st City of London Field Ambulance. His military career was as brilliant as his scholastic record. For twelve months he acted as dispenser in a military hospital at Valetta. Being anxious to take an active part in the fighting, he returned to England in September 1915 and was given a commission. He entered the Fort Puirbrook Officers' College for a three months' course, but passed out first-class in six weeks, and for a short time trained at Bodington Camp, Dorset, where, in the Brigade examination, he took first place in the Wiltshires and the second in the whole brigade. Early in 1916 he was sent for a course to the Staff College, Camberley, where he again distinguished himself, and passed out with one of the best records for merit and work given for many years. He sailed last July for Mesopotamia, and there he met his death.

Webber.—Private H. A. Webber, who before the war was with Mr. Chas. Jenkin, chemist and druggist, Lower Bristol Road, Bath, has died in a Swindon hospital.

Armour & Co., Ltd., have removed from Atlantic House, Holborn Viaduct, to new premises at Queen's House, Kingsway, W.C. 2.

Boots, Ltd., have closed their branches at Angel Row and Exchange Walk, Nottingham, and have united the businesses in new premises at 15 Wheeler Gate.

British Salicylic Acid as manufactured by the London Chemical Works, Ltd., Southall, Middlesex, has received an exceptionally high tribute from a Danish firm who "find it perfect and prefer it to the German."

Personalities.

Mr. John Frederick Edward Mullett, drug-merchant, 49 Fenchurch Street, E.C., left estate of the gross value of 2,781*l.* 11*s.* 6*d.*

Mr. Samuel Kay, J.P., of Kay Bros., Ltd., Stockport, whose death was reported in the *C. & D.* last week, was a man who was very highly esteemed in the locality, not only on account of the great help that he gave to technical education, but for the sympathetic interest which he showed in regard to the poor of the town, especially those who were sick and unable to bear the heat and burden of the day. He was Honorary Treasurer of the Sick Poor Nursing Association, and a Life Vice-President of the Stockport Infirmary. It is interesting to recall the fact that his late brother, Mr. Thomas Kay, was, like him, much interested in technical education, and it was due to him that the Manchester Association Scholarship of the Pharmaceutical Society was founded. Mr. Samuel Kay was a man of striking appearance, and we are indebted to his only son, Mr. Vernon Kay, for the portrait from which our engraving has been made.

Mr. Samuel Kay, J.P.

Trade Notes.

Brook, Parker & Co., Ltd., Nelson Street, Bradford, are making a leader of saccharin tablets just now owing to the scarcity of sugar, and supply buyers with a showcard which retailers will find useful for attracting customers.

Evansol is the alternative name or synonym for the Lysol manufactured by Evans Sons Lescher & Webb, Ltd., London and Liverpool. They invite chemists to co-operate with them in supplying samples of this product to professional clients.

The Standard Tablet and Pill Co., Ltd., Hove, announce in our Supplement this week that they are in a position to supply an "almost unlimited quantity" of the "Standard" brand of flexible medicinal capsules, and offer to send their price-list to buyers on application.

Ayrton's Supplement is the title of an illustrated monthly issued by Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. The April issue contains a lot of things, with illustrations of the more important of them and suggestions for their display on counter or in window. The company will post a copy of the Supplement to any of our readers who asks them for it by postcard.

A Striking and Saleable Article is figured by May, Roberts & Co., Ltd., Clerkenwell Road, London, E.C. 1, and Westmoreland Street, Dublin, in their advertisement this week. It is the "Empire" Waterproof Holdall, which by itself retails at 2*s.*, and filled with tooth and shaving brushes, toilet and shaving soaps, tooth-powder, and flesh-glove sells at 4*s.* 6*d.* It is a saleable and profitable article.

Genatosan, Ltd., 12 Chenies Street, London, W.C., make an interesting announcement in this issue regarding the supply of counter-bills and other advertising material for Sanatogen and the other products of the company, who, it will be remembered, are the British purchasers of Sanatogen and Formamint. They can supply this advertising material for a limited period with every 5*l.* order for their products.

A New Start.—Ralph L. Fuller & Co., Inc., 2 Rector Street, New York, have commenced business as manufacturers, importers, and exporters of drugs, chemicals, etc., with a capital of one million dollars. The founder and president is Mr. Ralph L. Fuller, of Cleveland, Ohio, where he has been identified with the drug and chemical trade for over twenty-five years. Besides the headquarters in New York, offices have been opened in Cleveland, Chicago, Philadelphia, and Boston. The London representative is Mr. Frank I. Hibbert, 17 Colonial House, Tooley Street, S.E. 1.

Observations and Reflections.

By Xrayser II.

There are Nine Candidates

for seven vacant seats on the Council, and if things take their course a contest is inevitable. There are four new men in the field against five old ones. An effort at an arrangement for avoiding a contest has, I understand, been made by the Progressives and rejected by their opponents. The official view—which the old candidates may be supposed to share—was that a contest this year ought to be avoided, which in the official mind probably meant either that no more new candidates ought to come forward than are needed to fill permanent vacancies, or that these should be filled by co-optation, in the good old Tory way.

In his Own Interests,

I hardly think the President of the Pharmaceutical Society was wise to give "The Script" so excellent a free advertisement as he did last week; people who hitherto have laughed at and promptly forgotten its snappy passages will begin to think that after all there may be some truth in them when they make officials so angry. The invitation given to Mr. Skinner in open Council to justify the offending items does not seem to me to have been in the best of taste. The moral of the whole affair is that as you cannot conduct a revolution with kid gloves, the sooner the official mind realises that some men are in earnest in their efforts for reform, and makes some attempt to clean out its stable without whimpering about it, the better it will be for the Society and for pharmacy as a whole.

The Collection of Medicinal Plants

on the lines recommended by "L'Union Pharmaceutique" is open to one serious objection, unless it were conducted under strict scientific supervision. Otherwise it would soon leave us no plants to collect. Anyone who has seen children (not to mention older people) "collecting" plants, or even gathering wild flowers, will hesitate to turn them loose on a job of this kind. I know more than one district in Wales in which certain ferns used to be fairly common but are not now to be found; and in some parts of Devonshire the authorities have had to forbid, under severe penalties, the gathering of flowers from the waysides and hedges, lest the county should be denuded of its fairest flora. If there is a danger of this when the only motive is the gratification of the æsthetic instinct, what would be the result when the making of money was the object?

The Harrogate Resolutions

will be accepted by most pharmacists as indicating the true line of reform in our educational system. The first of them is too vague and general in its terms to afford us much guidance, but the others, or those of them that deal with this subject, mark out more definitely the way we should go. The suggestion that the Society, in connection with the local Associations, should undertake postal tuition is especially to be commended. My experience of the postal system is entirely in its favour, and its adoption by the Society would go far towards the establishment of the much-desired curriculum, or would, at least, be an excellent substitute for it. That the Minor examination is already stringent enough most practical men agree, but there need be little objection to making it more so if greater facilities for coping with it were given to candidates. All that English pharmacy really needs, however, to raise it to the dignity of a profession is to create a class of super-pharmacists, to which all who desire a higher status than that of the ordinary chemist and druggist might be admitted by passing a stricter and more purely scientific examination. The medical profession has its different grades of practitioners; why should not pharmacy too have its divisions, as well marked as those between the consulting physician and the "surgeon and accoucheur"?

Plant-mythology

is a fascinating study, but one in which it is very easy to go wrong and to reach very absurd conclusions. Few students of the subject will, I fancy, accept some of the conclusions reached by Dr. Rendel Harris in his lectures at Manchester, now published under the title of "The Ascent of Olympus." I can instance only one. Dr. Harris not only accepts the derivation of the plant-name *Artemisia* from *Artemis*, one of the names of Diana (though Pliny tells us the plant was named after herself by Artemisia of Halicarnassus, having been known previously as *Parthenis*), but he goes on to say that the name *Taygetes* was also given to the plant, and argues that this was because it grew on Taygetus, a mountain said in the "Odyssey" to have been beloved by Artemis. The conclusion he comes to is (I quote at second hand) that "it is the plant that loves the mountain, and not Artemis in the first instance; or, rather, *the plant is Artemis and Artemis is the plant.*" Unfortunately, there appears to be no older authority for the name Taygetes than that of the "Hortus Sanitatis" of 1491. The author of this work is supposed to be following the Herbarium of the so-called Apuleius, where, however, the name appears in a very different form. Our Anglo-Saxon Leechbook (*c.* 1000) copies it thus: "Herba artemesia, *traganthes.*" In any case this Herbarium, of quite uncertain date and authorship, is a poor authority on which to found so startling a theory. As for the idea that the name *Artemisia* in itself proves connection with Artemis, this is sufficiently disposed of by the fact that hundreds of similar plant-names are derived, for a multitude of different reasons, from personal names. The whole argument is akin to that which makes Dionysus the ivy, because Dionysus is the thunder, and the ivy is a parasite of the thunder-courting oak, for which Dr. Harris is responsible.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

255/67. Naumann's "Ucurine": supply.
3/20. Ergotine "Loster."
1/18. Ford's inhaler.
1/1. Muiratine pills.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.:

Amidopyrin, 1/2
Blosser's asthma-remedy, 251/16
Bone meal, 249/35
"Boracite," 257/16
Boric-acid socks, 255/9
"Caledonia" specialities, 259/19
Carabana Water, 2/45
Cellophane, 251/39
"Compericum," 253/38
Copper sulphate, 257/1
"Deba" tablets, 251/17
Dried milk, 250/41
Ede's Diamond Cement, 255/25
"Elcaya" cream, 257/15
"Erythemol," 259/20
Glucose, liquid, 1/3
"Glutiodin" tablets, 251/28
Hair-brushes, 250/24
Herring's Sulphate of Quinine, 1/17
Horlick's malted milk, 250/15
Houbigant's perfumery, 257/69
"Ixidama," 256/64
Jackson's varnish stains, 252/5
"Jansia" powder, 254/46
Koumiss, 250/40
Leeming's Essence, 257/25
Magnesium Powder, 259/1
Maple sugar, 257/35
Naphthaline, 257/36
Nikalgin, 252/18 and 254/44
"No-Germo," 244/12
"O.S." tooth-blocks, 249/36 and 257/27
Odol specialities, 251/10
"Ormex" distemper-cure, 238/26
"Oxydol" tooth-powder, 257/24
"Ozonol," 259/18
Paper waistcoats, 239/50
"Petol" specialities, 255/30
"Phosphogen," 216/22
Photographic chemicals, 221/27
Photographic sundries (for Egypt), 240/38
"Pine Mint," 217/68
Powdered-milk machinery, 202/69
"Pyrilin," 257/68
Ratox, 209/18
"Reducine," 227/48
"Reliance" hot-water bottle, 195/49
Rigollot's mustard-leaves, 214/54
Sandow's Cocoa, 3/13
Tins, 250/24
Tooth-brushes 250/24
Tyrell's cascade syringe, 257/26
"Vermijelli," 239/52
Violet Paraffin Oil, 1/19
Walker's Disinfecting Blocks, 258/18
Water-glass, 235/61
"Westrosol," 239/51

Index Folio 353

"SANITAS-CREOLEUM"
(WOOD PRESERVATIVE)
A unique preparation in three grades of Colour for preserving all forms of Wood and Woodwork against the inroads of fungoid and insect life.
In Tins, Drums, and Casks.
TERMS UPON APPLICATION TO
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Limehouse, LONDON, E.

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ABSOLUTE ALCOHOL
Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd., LAMBETH, S.E.

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Grand Prix LEEDS. Turin 1911.
PHARMACEUTICAL PREPARATIONS.
Tinctures, Ointments, Pills, Tablets, Suppositories. Standardised and Clinically Tested Galenicals, &c.
SURGICAL INSTRUMENTS.
X-Ray and Electro-Medical Apparatus, Dressings, &c.
AERATED BEVERAGES.
Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.
SCIENTIFIC APPARATUS.
(Chemical, Physical, and Photographic). Balances and Weights.
CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

"A revolution in the art of Urine Testing."—*Medical Press & Circular.*
ENDOLYTIC TUBES
"The Laboratory in the Waistcoat Pocket."
Wholesale Terms on application to the Sole Proprietors:
FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Gelatin Capsules.

Supplementary to the observations in the *C. & D.*, April 7, p. 43, we may state that the Explosives Department of the Ministry of Munitions has not refused all supplies of glycerin for the purpose of making gelatin capsules, but it has made a considerable reduction in the amount of glycerin normally used, and has recommended a stoppage of the taking of drugs in capsules which are not thought to be sufficiently nauseous to justify this.

The following letter from the Department to Messrs. Evans Sons Lescher & Webb shows the kinds of medicines in capsules for which glycerin will be supplied:

Ministry of Munitions of War,
Propellant Supplies Branch,
32 Old Queen Street,
Westminster.
10th April, 1917.

Gentlemen,—I am directed to acknowledge receipt of your letter of 2nd April with reference to the use of glycerin in gelatin capsules, and in reply I am to inform you that this Department considers the use of glycerin can only be authorised in the following capsule preparations:

Apiol
Balsam. copaibæ, cubeb. et santal.
Balsam. copaibæ
" " ol. cubeb.
" " buchu, cubeb.
Carbolic acid
Creosote
Ergot and apiol compound
Guaiacol
Ol. gaultheriæ
Ol. santal., cubebæ
Ol. santal., flav. ang.
Ol. santal., salol, and methyl-blue perles
" " " " capsules
Terebene
Terebinthin

I am, Gentlemen,
Your obedient Servant,
A. Rae,
For Director of Propellant Supplies.

Messrs. Evans Sons Lescher & Webb, Ltd.

It is now understood that satisfactory flexible gelatin capsules are being produced without the use of glycerin, and it may therefore not be possible to continue making allocations of glycerin for the manufacture of gelatin capsules.

It is necessary for dispensing chemists to be most careful in regard to supplying glycerin, and it is urgently necessary that doctors should not aid the public in depleting the limited existing stocks by writing prescriptions for glycerin for their friends, as some are doing. The result of this may be a definite order of prohibition from the Department.

Inland Revenue.

The Report for 1915-16 of the Commissioners of H.M. Inland Revenue has been published; it is smaller than usual owing to the staff depletion and to the war, and is confined to Inland Revenue duties alone, duties of Excise and Customs falling to another Government Department. Income-tax forms the chief item, then come estate and correlated duties, stamp-duties, land-tax, inhabited-house duty, land-duties, and excess-profits duty. There is no Government Report which so stimulates reflection as this, for the figures reveal British capabilities and performances as well as anything. Most people know, for example, that at the present time the nominal rate of income-tax is 5*s.* per pound. The gross yield in 1915-16 was 177,144,909*l.*, and the Commissioners show in one of the tables that the net amount payable on earned incomes is 1*s.* 9⅜*d.* per pound for 131*l.*, up to 3*s.* per pound payable by 3,000*l.* a year men. Then the super-tax comes in, the man with 3,001*l.* a year paying 450*l.* 3*s.* of income-tax and 20*l.* 17*s.* 10*d.* of super-tax, while the 100,000*l.* a year man pays 15,000*l.* income-tax and 16,529*l.* super-tax. The amount of super-tax paid last year was 16,765,000*l.* Excess-profits duty yielded 187,846*l.* during the closing days of the year 1915-16, and the Commissioners point out that the first period of productivity falls in the year which ended on March 31, 1917 (see next page). It is of interest to note that the income-tax yield in 1847-48 was 32,811,691*l.* and the cost of collection 4.42 per cent., while the cost of collecting 177,144,909*l.* last year was 1.4 per cent. The total cost sixty-eight years ago was 1,450,940*l.* and last year 2,480,000*l.*—*i.e.*, less than double the cost for collecting more than five times the money; but the collection cannot mean five times the work—double would be nearer the point. Estate-duties amounted in 1915-16 to 31,035,000*l.*, which was just 35,000*l.* more than the Exchequer's estimate. We note that 81,676 estates were recorded, of which 23,944 did not exceed 300*l.*, and 11,836 were between that and 500*l.*; of the majority three were over 1,000,000*l.*, two between 1,500,000*l.* and 2,000,000*l.*,

one between 2,500,000*l.* and 3,000,000*l.*, and one above the last figure. The highest total for smaller sums other than those mentioned is 17,736, which is the number of persons who died in 1915-16 with estates valued between 1,000*l.* and 5,000*l.* Those between the latter figure and 10,000*l.* numbered 3,957. It is curious to note that after 70,000*l.* there is a drop from 118 to 34 for those who died with estates valued at 70,000*l.* to 75,000*l.*, and from 75,000*l.* to 80,000*l.* the number was 37, but there was a rise to 118 for those between 80,000*l.* and 100,000*l.* A similar condition is recorded after 350,000*l.*, when there is a drop from 17 to 9 for the 400,000*l.*, and 9 is adhered to for 500,000*l.* to 600,000*l.*, with a rise to 12 for 750,000*l.*; then single figures prevail. These are some only of the reflections that the Report induces. Stamp-duties are as stimulating, but we cannot go into details. We note that 3,959 limited companies were registered in the year, and 221,359*l.* was paid as duty on the share capital, 199,899*l.* in England. The amount paid on cheques was 1,267,000*l.*, which means 304,080,000 cheques.

A Treasury statement issued last month shows that there was a net increase of 236,660,758*l.* on the total revenue of the United Kingdom in the year which ended on March 31, 1917, as compared with the corresponding period of 1916. The receipts under the various heads were as follow:

Customs	£70,561,000
Excise	56,380,000
Estate, etc., Duties	31,232,000
Stamps	7,878,000
Land-tax	640,000
House Duty	1,940,000
Property and Income Tax (including Super-tax)	205,033,000
Excess-profits Duty (including Munitions Levy)	139,920,000
Land-value Duties	521,000
Postal Service	24,350,000
Telegraph Service	3,350,000
Telephone Service	6,400,000
Crown Lands	650,000
Receipts from Sundry Loans ...	8,055,817
Miscellaneous	16,516,765
	£573,427,582

The expenditure was 2,198,112,710*l.*, of which 2,058,993,053*l.* was for supply services.

Advertising Circulars.

Since we printed on March 31 an article on circulars and paper (p. 43) we have received many inquiries on the subject, and it is desirable to recall the facts, and to give the terms of the more important orders issued by the Paper Commission. These began on March 2, when the Paper Restriction Order, 1917, was gazetted by the Board of Trade. This dealt chiefly with posters and circulars. It prohibited the use of paper posters exceeding 600 square inches, and restricted the exhibition of paper posters under that size advertising any newspaper or periodical to the premises where the newspaper or periodical is published. The order also ruled that after March 10—

"No person shall exhibit, or cause to be exhibited, any paper poster making any announcement with respect to goods offered for sale by a retailer except at the premises where they are so offered for sale."

By a subsequent regulation woven material was put on the same restriction as paper. So far as retail traders are concerned it will be seen that they are permitted to exhibit on their premises posters not exceeding 600 square inches about the goods sold in the premises. The circular provision as originally published is as follows:

"No person shall on or after March 10, 1917, despatch or cause to be delivered to any person, through the post or otherwise, any tradesman's catalogue or price-list or any advertising circular, unless a request has been made by or on behalf of that person in writing for the despatch or delivery thereof. Provided that nothing in this provision shall prevent the despatch or delivery of catalogues or price-lists by traders to traders for the purpose of their trade, or the despatch or delivery of catalogues or price-lists to persons abroad."

Subsequently the Commission modified this provision in respect to the date, first changing March 10 to March 24, and then to April 21 (see *C. & D.*, March 31, p. 52), and also issued a general licence, the terms of which are as follows:

"The Commission permits, until further notice, the despatch and delivery of—

(*a*) Advertising circulars other than traders' and tradesmen's advertising circulars.

(*b*) Circulars requesting the verification of information for books of reference with a subscription form printed on them.

(*c*) Annual diaries, almanacks, and calendars which are issued gratuitously, if the amount of advertising matter upon, in, or attached to them is not more than in the previous year.

(*d*) Advertising circulars which on or before March 2 were already packed and sealed up with articles which are sold in sealed packages, but such circulars must not be inserted in any parcels, cases, or packages after that date.

A 'tradesman' or a 'retailer' is any person, firm, society, company, or corporation which offers goods for sale or hire for profit to other persons who are not dealers in those goods.

A 'trader' who is allowed to send out a catalogue or price-list to other traders is a manufacturer, merchant, dealer, or agent, and the 'trader' who sells or, for the purpose of his trade, uses the goods referred to in the catalogue or price-list."

It is interesting to know that an auctioneer is not a tradesman or retailer, and may despatch or deliver catalogues and exhibit posters of auction sales at the premises where the sale is to be and elsewhere. We have already explained that the object of this order is to save paper, and that it is desirable that those who have in stock circulars covered by the order which were printed before March 2 should be allowed to use them. This particularly applies to manufacturers handbills supplied to retailers as packing-paper, and to other printed matters which are not circulars in the ordinary acceptance of that term.

Drugs in Germany.

We referred last week to the control which the German Government is exercising in regard to stocks of drugs. It appears that the Medical Department of the Prussian War Ministry in Berlin decreed early last month that from March 15 all drugs and drug preparations are to be declared on April 1 and October 1. Stock-books must be kept. Speculation rather than scarcity is the direct reason for this, but there is no question of the fact that Germany is suffering from lack of chemicals and drugs. The Federal Council issued on March 22 a decree to the effect that wholesale dealing in drugs from April 16 will only be permitted to persons having a special licence. Retail dealers, apothekers, veterinary surgeons, and persons who were in the wholesale drug-trade before August 1, 1914, are exempt.

The Pharmaceutical Society's Finances.

We print on p. 46 the 1916 financial statement by the Council of the Pharmaceutical Society of Great Britain. The Society dropped 1,507*l* last year, which was expected owing to the heavy fall in examination candidates. We referred to this some time ago. Apart from this there is little to be said about the statement, which is chiefly remarkable for what it does not tell. The Society has been running a prescription-checking department for a year, but there is not a figure or word about it in the statement, although it has received a good deal of money for checking, and employs and pays two pharmacists and several women in the business. Have the income and expenditure balanced each year? In the same oblivion rests the Parliamentary Secretary, an officer who was appointed some years ago at a salary of 300*l.* a year, but it is some years since any financial credit to him has appeared in the statement, although Mr. Glyn-Jones is not so complete an altruist as to escape a salary that he is entitled to. It is somewhere in the statement, no doubt; but where? It is questions like this that make the statement interesting.

One Meaning of our Blockade.

Substitution is avowedly becoming the order of the day in Germany, and the advertisements in the newspapers of substitutes and recipes for substitutes, "worth their weight in gold," are an eloquent tribute not only to the effectiveness of our blockade but to the inventive resources of the German chemist, for it is largely from chemical-factories that these advertisements come. Among the substitutes most commonly offered are those for soap, starch, rubber, honey, yeast, baking-powder, coffee, cocoa, tea, pepper, oils and varnishes of various kinds, glycerin, eggs, jams, soups and sauces, butter, sugar and sweets,

glue, animal intestines for coating sausages, wool knitting-yarn, and soda. Some of these are prohibited in certain districts, but evidently there is a demand for all of them. The uses to which, in spite of its scarcity, paper is being put are remarkable. It is even used, or about to be used, instead of copper in the making of shells, and paper string seems to have become a staple article of commerce. Necessity is the mother of invention, and a good many discoveries of permanent value can scarcely fail to result from the present extremity.

The Literature of Chemistry

receives but scanty notice in the last volume of the Cambridge History of English Literature, which deals ostensibly with the whole of the nineteenth century. It occupies not quite ten pages, while the Literature of Caricature and Sport takes up nearly twenty-eight. Only nine authors are dealt with in it, and the bibliography attached refers but to sixteen. The first three writers noticed—Black (whose thesis on magnesia alba, etc., is said to be our earliest example of a genuinely scientific investigation), Priestley, and Cavendish—belong to the previous century; after these Dalton, Williamson, Frankland, Davy, Graham, are noticed in rapid succession, and the History closes with Faraday, who died in 1867. The latest contribution to our chemical literature included in the bibliography is an article by Sir W. H. Perkin in the Chemical Society's "Journal" for 1884. Even allowing for the fact that the scope of the work does not include writers still alive, this is surely somewhat remarkable. Chemistry is of all sciences the most important to the social and economic progress of the world, and to lag behind here is to be left behind everywhere.

Phytochemical Research.

Dr. Frederick B. Power, F.C.S., Director of the Phytochemical Laboratory of the Bureau of Chemistry, U.S. Department of Agriculture, delivered an address before the Washington Chemical Society on "The Aims and Developments of Phytochemical Research," and it is printed in "The American Journal of Pharmacy" for March. It was chiefly devoted to the researches on chaulmoogra oil conducted by Dr. Power when he was Director of the Wellcome Chemical Research Laboratory, London, the results forming a series of communications to the Chemical Society beginning in 1904, abstracts of all of which were printed in the *C. & D.* as they were communicated. In his preliminary remarks, Dr. Power said :

"The subject of phytochemistry in its broadest sense may be considered to comprise the application of chemical science to all conditions affecting the cultivation and growth of plants, as well as a knowledge of their constituents. This is contrasted with the conditions that prevailed in pharmaceutical chemistry at the time when plant-analysis was all the rage, and young men did that kind of work without advancing knowledge very materially."

This is our paraphrase of Dr. Power's remarks, and he proceeded to point out how much more beneficial to knowledge is phytochemistry, which is concerned, among other things, with the character and composition of the soil, the selection of suitable fertilising-material, the study of such questions as the influence of radioactive ores and residues on plant-life, and also the conditions under which the economically important constituents of the plant are produced in the largest amount. As an example of the latter purpose, efforts to increase the yield of a particular alkaloid, such as quinine from cinchona-barks, or to promote the development of such other important compounds of diverse character as are afforded by various plants, were mentioned. Dr. Power's exposition of the chaulmoogra-oil and hydnocarpus researches makes an excellent monograph on the subject. He also dealt with dandelion, the chemistry of oil of bay, and cognate matters. It is apparent that Dr. Power has entered a sphere of work entirely to his liking, and that he is to serve his native country well by directing work that is much wanted there.

Years Ago a man to pass the test of a yeoman had to lift and stretch out at arm's length a staff of lignum vitæ (*Guaiacum officinalis*) 4 ft. long and 3 in. wide. Medical examination had not then come in.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on March Analytical Exercise.

The powder distributed to students on March 13 contained one part by weight of mercurous chromate, one part of cupric sulphate, and eight parts of potassium sulphate. The calculated composition of such a mixture is:

Hg	7.8
Cu	2.6
K	35.9
CrO_4	2.2
SO_4	47.9
H_2O	3.6
	100.0

Samples of the powder were sent out to thirty-two students, and twelve reports of its analysis were received. The failures in the detection of the several constituents were:—(*a*) Metallic radicals: Mercury, 5; copper, 2; potassium, 2. (*b*) Acid radicals: Chromic, 7; sulphuric, 1. Five students overlooked the evolution of water (relatively small in quantity) when the powder was heated in a dry test-tube. Of the seven who did not report the chromic-acid radical, one reported chromium as a metallic radical.

The intense orange-red colour of the mercurous chromate predominated in this powder, and effectively masked the pale-blue of the cupric sulphate. The red colour led to mercury compounds being suspected—mercuric oxide or iodide being mentioned by some students, but not mercurous chromate, which is less familiar. Preliminary tests gave evidence of mercury and chromium, but copper, in most cases, remained undetected until the systematic examination of the hydrogen-sulphide precipitate. The behaviour of the powder when treated with the various acids, dilute or concentrated, in preliminary tests and in preparing solutions, furnished some instructive points, and was a useful guide to those already familiar with the behaviour of chromates insoluble in water when so treated. On heating the powder with hydrochloric acid, oxidation of the latter took place at the expense of the oxygen of the chromate, mercury passed into solution as mercuric chloride and chromium as chromic chloride, while the small excess of chlorine not required to form these chlorides made its escape:

$$2Hg_2CrO_4 + 16HCl = 4HgCl_2 + 2CrCl_3 + 8H_2O + Cl_2.$$

This interaction was accompanied by a change of colour, the resulting solution being yellowish-green owing to the presence of chromic and cupric chlorides. Several students noted the evolution of chlorine. Dilute sulphuric and nitric acids do not attack chromates in this way, and when these acted on the powder, orange solutions were obtained which could be boiled without change. From the solution in hot dilute nitric acid, mercurous chromate was deposited on cooling as a brilliant orange-red crystalline powder. Hot concentrated sulphuric acid decomposed the mercurous chromate with formation of mercuric and chromic sulphates and water, and liberation of oxygen, again with change of colour.

The systematic analysis of a suitably prepared hydrochloric-acid solution of the powder presented no special difficulty, but the quantities of copper and chromium were small, and this was no doubt the cause of some failures in their detection, which were most numerous in the case of the chromium. It seems probable that several failures to detect the mercuric sulphide in the hydrogen-sulphide precipitate were due to insufficient removal of hydrochloric acid and chlorides from this precipitate, by washing, prior to its treatment with nitric acid. Under such circumstances the mercuric sulphide, instead of remaining unattacked by the nitric acid, would be decomposed by a mixture which has the effect of aqua regia, and thus it might pass into solution.

Prizes.

The First Prize for the best analysis has been awarded to T. C. Egan, c/o T. Clarkson, 14 Tower Street, West Hartlepool.

The Second Prize has been awarded to F. Wildman, 53 Bute Avenue, Nottingham.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

Marks Awarded for Analyses.

T. C. Egan (1st Prize) ...	95	Part Timer	54
F. Wildman (2nd Prize)	93	Onyx	50
Nil Desperandum ...	91	G. C.	46
Worm Killer	77	Chromium	45
Jayjay	75	Twinkle Star	41
Nelson	57	Prunell	33

To Correspondents.

F. Wildman.—Prepared as you describe, the precipitate which you supposed to consist of barium sulphate and sulphite must have contained some barium chromate, the reactions of which may have misled you to some extent.

Nil Desperandum.—Note that cobalt nitrate is only of use in blowpipe testing when applied to a residue which is white after the first heating on charcoal.

Worm Killer.—A ready-prepared "magnesia mixture" is safer in use than the addition to the solution to be tested for a phosphate, of ammonium chloride, ammonia in excess, and magnesium sulphate, since a precipitate of magnesium hydroxide may be produced if the ammonium chloride be insufficient in quantity. The want of a solution of ammonium molybdate is a serious handicap in testing for traces of phosphates.

Jayjay.—The crimson chloroform layer which you observed in testing for an iodide by means of bromine-water was a solution of bromine in chloroform: the solution of iodine in chloroform is violet. We failed to obtain evidence of the presence of a trace of a nitrate.

Nelson.—Your failures to obtain a residue and a precipitate consisting of mercuric sulphide and of chromic hydroxide respectively are remarkable. The copper, potassium, and sulphuric-acid radical which you detected could not account for the colour and behaviour of the powder.

Part Timer.—We were not able to understand the grounds for your conclusion that iron was present both as ferrous and as ferric compounds, nor could we obtain the reactions for iron which you describe. Your tests for a borate seem convincing, but none was present.

Onyx.—If properly washed free from hydrochloric acid and chlorides, the hydrogen-sulphide precipitate would not dissolve completely on boiling with dilute nitric acid, since mercuric sulphide is not decomposed by that reagent; but if chlorides remained, you would obtain an aqua regia effect which might result in its decomposition.

G. C.—Your report that there was no action when the powder was heated with hydrochloric acid and with concentrated sulphuric acid shows inattentive observation. See the general remarks above.

Chromium.—It was not appropriate to test for a chromate in the hydrochloric-acid solution of the powder by adding acetic acid and lead acetate (1) because any chromate originally present was liable to reduction if heated with the hydrochloric acid (see the general remarks above), and (2) because a precipitate of lead chloride was practically certain to be formed, and this, if formed in a yellow solution, might be mistaken for a yellow precipitate. The water-soluble portion of the powder could not give a precipitate of cupric arsenate on the addition of cupric sulphate, as you report, since it already contained cupric sulphate.

Twinkle Star.—You omitted to give any hint as to the nature of the solution to which you added reagents as tests for acid radicals, hence it is impossible to suggest why you fell into so many serious errors in the conclusions which you report. Give full details in future reports.

Prunell.—Before adding stannous chloride to the solution obtained by decomposing the mercuric sulphide with aqua regia, the solution should have been boiled for some time to free it from excess of aqua regia and of the volatile substances formed from it, since these would oxidise the stannous chloride and prevent it from reducing the mercuric salt and producing mercurous chloride and mercury. You omitted to include the report of your testing for magnesium and the alkali metals.

The Tournament.

This month's exercise has not resulted in any rearrangement of the competitors nearest the top of the list. The following five competitors have now aggregates over 300 for the five exercises to date:

Centigrade	472	Jayjay	346
Digitalin	443	Nil Desperandum ...	338
Worm Killer	363		

O. Henry.

We recently mentioned that this American novelist (the late W. S. Porter) was a drug-clerk in the early stages of his chequered and pitiful career. In his biography, by Professor C. Alphonso Smith, it is stated that he spent three years in a penitentiary, and while there served under the chief physician as night drug-clerk. Speaking of him, the doctor said: "I have never known a man who was so deeply humiliated by his prison experience as O. Henry. He was a model prisoner, willing, obedient, faithful. His record is clear in every respect. It was very seldom that he mentioned his imprisonment or in any way discussed the subject. One time we had a little misunderstanding about some alcohol, which was disappearing too rapidly for the ordinary uses to which it was put. I requested that he wait for me one morning, so that I could find out how much alcohol he was using in his night rounds, and after asking him a few questions he became excited when he thought I might be suspicioning him. 'I am not a thief,' he said, 'and I never stole a thing in my life. I was sent here for embezzling bank funds, not one cent of which I ever got. Someone else got it all, and I am doing time for it.' You can tell when a prisoner is lying as well as you can in the case of anybody else. I believed O. Henry implicitly. I soon discovered that he was not the offender in the matter of the alcohol. But the question disturbed him, and he asked me once or twice afterward if I really thought that he ever stole anything." In prison O. Henry wrote ten of his best-known stories. They were "An Afternoon Miracle," "Money Maze," "No Story," "A Fog in Santone," "A Blackjack Bargainer," "The Enchanted Kiss," "Hygeia at the Solito," "Rouge et Noir," "The Duplicity of Hargraves," and "The Marionettes." His uncle was a doctor in a Southern town, and the future novelist was, as we have already told, in his drug-store from his fourteenth to his eighteenth year.

Microbiology for Pharmacists.

Presentation to Dr. Burnet.

A Meeting in connection with the proposed classes in bacteriology was held in the Holborn Restaurant, London, on Wednesday evening, April 11. There was a large attendance, the Duke's Hall being comfortably filled, there being a sprinkling of ladies. Mr. Atkins, Commandant of the Pharmacists' V.T.C., presided, and with him on the platform were Dr. Burnet, Mr. Edmund White, Mr. Woolcock, and Mr. A. H. Jenkin. In introducing Dr. Burnet, the Chairman said that the meeting was held for two reasons: first, to advertise the fact that the Pharmaceutical Council had decided to take up bacteriology; and, second, to make clear the work done by the P.V.T.C. in the carrying through of the proposal. Even in London pharmacists are not aware of the work done by the Corps in this direction. Something like a hundred pharmacists had been studying bacteriology for many months under the tuition of Dr. Burnet. To make the forthcoming course a success they must have support from pharmacists all over London.

Dr. Burnet began his remarks by asking whether pharmacists at this critical period of the nation's history are prepared to take stock of the position and step in and take their proper place in the national economy. Speaking of vaccine and serotherapy, he said these have come to stay, and regarding them pharmacists, as a rule, know little more than the generality of the medical profession. (Laughter.) If they are going to keep their profession in their own hands they must place themselves in such a position that their claims cannot be ignored. The V.T.C. had already justified its existence in moving this ponderous body, the Pharmaceutical Council, to take up bacteriology. He suggested a thoroughly comprehensive series of lectures on the theoretical side from the very commencement to the latest development, and that a practical course should also be organised. He looked forward to the time when the Pharmaceutical Society will have its own serum-farm and laboratory. (Laughter.) He hoped that the dispensing doctor would soon disappear, and that the prescribing chemist would be more moderate. He did not think that a medical man is necessary to make a vaccine, but that men who are trained to handle the deadliest poisons are also competent to handle toxins and vaccines. (Applause.)

Thereafter Dr. Burnet presented certificates to a large number of men who had taken the past session's course.

Mr. Edmund White said his principal function was to ask Dr. Burnet to accept a gift from the P.V.T.C. in appreciation of the work he had done. He had not Dr. Burnet's rhetoric or power of magnetism, and, besides, Dr. Burnet is an optimist, while he is a pessimist. Referring to the lectures delivered by Dr. Hewlett some years ago, Mr. White said he thought that the Council had rightly resuscitated the subject. He proceeded to speak of Dr. Burnet's personal qualifications, mentioning that he is a Parliamentary candidate, and asked his acceptance of the present, which was an oil-painting.

Dr. Burnet replied, thanking the V.T.C. for the handsome gift. When he entered the room he felt a subtle influence which affected him as a highly emotional man, and he had that feeling of exhilaration which was felt only by those who had been brought up on the moors. The reason for this was now disclosed, for behind the screen was the undiscovered cause of his eerie feeling. He thanked them very warmly for the magnificent picture that they had so unexpectedly presented to him. (Applause.)

Pharmaceutical Society of Great Britain.

Financial Statements.

General Fund Account.

Expenditure (two years compared).

	1915 £ s. d.	1916 £ s. d.
Annuities	700 0 0	700 0 0
Carriage of Books and Parcels	7 5 1	6 18 10
Certificates of Death	29 4 8	22 15 0
Examinations: Minor and Major—		
Fees to Examiners and Travelling Expenses—		
England and Wales ...	1,061 3 0	699 12 6
Scotland	337 16 6	251 0 0
Refreshments—England and Wales ...	49 14 3	34 8 9
Scotland	26 5 6	23 10 7
Apparatus, Drugs, Chemicals, Printing, and sundry charges—England and Wales	292 15 6	175 16 11
Scotland	88 13 8	63 8 11
[*Totals*: 1915, £1,856 8*s*. 5*d*.; 1916, £1,247 17*s*. 8*d*.]		
Gas, Electric Light, Water, Coal, Cleaning, Materials, etc.	358 5 9	351 10 4
House Servants—Wages	409 3 6	407 10 6
"Pharmaceutical Journal"	2,232 19 0	2,180 18 11
Library:—Librarian's Salary	300 0 0	300 0 0
Purchase and Binding of Books, etc.	39 8 1	48 3 0
[*Totals*: 1915, £339 8*s*. 1*d*.; 1916, £348 3*s*.]		
Law Costs	0 0 0	428 8 8
Museum:		
Curator	250 0 0	250 0 0
Assistant's Wages and Sundry Expenses for Bottles, etc.	104 17 9	96 15 4
[*Totals*: 1915, £354 17*s*. 9*d*.; 1916, £346 15*s*. 4*d*.]		
North British Branch:		
Resident Secretary in Scotland and Clerks—Salaries	560 16 8	590 0 0
Taxes and Insurance	83 11 0	122 10 7
Members of Executive—Travelling Expenses, etc.	80 18 10	44 2 2
Fuel, Light, Water, Cleaning, Service, and Miscellaneous Expenses ...	325 16 0	328 0 10
[*Totals*: 1915, £1,051 2*s*. 6*d*.; 1916, £1,084 13*s*. 7*d*.]		
Evening and other Meetings	31 2 10	18 9 9
Postage:—General	283 6 10	191 8 6
"Journal"	1,080 14 11	1,258 8 5
[*Totals*: 1915, £1,364 1*s*. 9*d*.; 1916, £1,449 16*s*. 11*d*.]		
Register of Chemists and Druggists... ...	41 6 8	13 6 9
Rent, Taxes, and Insurance	851 7 9	831 11 1
Premium on Leasehold Redemption Policies	128 2 6	128 2 6
Repairs and Alterations, Electric Service and Fittings	181 10 1	117 7 1
Salaries:—Secretary and Registrar ...	814 11 8	839 11 8
Clerks	1,651 19 8	1,711 11 6
[*Totals*: 1915, £2,466 11*s*. 6*d*.; 1916, £2,551 3*s*. 2*d*.]		
School of Pharmacy and Research Laboratory:—		
Stipends of Professors and Share of Fees	1,157 12 8	1,007 2 5
Lecturer, Assistant Lecturer, and Demonstrators, and Wages of Porters	649 5 6	521 12 2
Apparatus, Chemicals, Specimens for Lecture Classes, Prize Medals, Certificates, Printing and Posting Prospectuses	467 6 5	351 14 6
[*Totals*: 1915, £2,274 4*s*. 7*d*.; 1916, £1,880 9*s*. 1*d*.]		
Stationery, Printing, and Office Expenses	379 8 4	390 15 5
Calendar of the Society	144 9 9	152 12 6
Sundries	18 8 10	14 12 4
Cost of conducting Prize and Scholarships Examinations	12 13 3	17 8 8
Medals—Council and Herbarium Competitions	3 12 0	6 0 6
E. M. Holmes, Hanbury Medallist	50 0 0	
Travelling Expenses and Refreshments for Council	686 18 1	637 7 8
Local Associations and Parliamentary Expenses: Meetings, etc.	1,655 4 9	981 9 1
Telephone Service	26 2 2	33 1 11
Fees to Chartered Accountant	42 0 0	42 0 0
Staff Provident Fund	55 0 6	205 3 6
"The Chemists' Annual"	0 0 0	257 6 6
Depreciation of War Stock on Sale... ...	0 0 0	190 0 4
	£17,750 19 11	
Balance added to Accumulated Funds ...	1,712 1 10	
	£19,463 1 9	£17,043 16 7

Income (two years compared).

	1915 £ s. d.	1916 £ s. d.
By Examination-fees:—		
Minor (996 in '15, 558 in '16) ...	6,859 0 0	3,697 5 0
Major (45 in '15, 24 in '16)	132 6 0	71 8 0
Registration-fees as Students (532 in '15, 412 in '16)	1,243 4 0	865 4 0
Fees for Restoration to Register ...	30 9 0	24 3 0
Certificates of Qualification	40 17 0	36 4 0
[*Totals*: 1915, £8,305 16*s*.; 1916, £4,694 4*s*.]		
Interest on Investments:—		
Dividend on Port of London Authority Stock	74 9 3	67 3 9
Dividend on Water Board Stock ...	50 4 5	45 0 4
" on Loan to Benevolent Fund	14 11 8	0 0 0
" on War Stock	121 17 10	170 14 6
		285 11 2
Less: Tax on Bankers' Interest, 1915	17 15 0	35 5 0
Interest on Loan from Benevolent Fund	17 10 0	
		250 6 2
Ground-rents	251 12 8	222 18 9
Net Rent of 15 Bloomsbury Square ...	166 11 6	152 6 3
On Deposit at Bankers'...	71 2 2	
[*Totals*: 1915, £750 9*s*. 6*d*.; 1916, £625 4*s*. 2*d*.]		
School-fees	1,337 5 0	1,073 10 0
Grant from the Board of Education... ...	201 0 0	453 10 0
Subscriptions:—		
Members (7,555) ... ... [255 subscriptions remitted.]	7,810 19 0	7,932 15 0
Student Associates (451) ... ... [53 remitted.]	271 8 6	236 15 6
Life Subscriptions	388 10 0	357 0 0
Totals: 1915, £8,470 17*s*. 6*d*.; 1916, £8,526*l*. 10*s*. 6*d*.]		
British Pharmaceutical Codex—Balance of Account	48 7 8	163 2 1
Penalties	99 6 1	0 0 0
Legacy: H. L. Hargreaves...	250 0 0	0 0 0
	£19,463 1 9	£15,536 7 9
Balance from Accumulated Funds ...		1,507 8 10
		£17,043 16 7

The balance-sheet of the General Fund and the accounts of the Benevolent Fund, the Orphan Fund, Scholarships Funds, and Waterall Legacy were also given.

Colic in Sheep.

At times cases of colic are both numerous and frequent in a flock of sheep. The ailment is usually caused by overfeeding, especially of sweet and succulent pastures, and drinking freely of cold water when heated after being over-driven. The symptoms are practically the same. There is acute pain of an intermittent nature, with an intervening period of peace and quiet, fluctuating according to the severity of the attack. The treatment is the same as for other animals, but the following or part can be given, as they are common remedies, and few shepherds' homes are without the majority of them:

Tr. opii... ... ... ʒj.
Pulv. zingib. ... ... ʒj.
Spt. frumenti ... ... ℥j.

The last-mentioned is, of course, whisky, and the dose may have to be increased, for there is not much overproof stuff nowadays. The mixture should be given in gruel.

Little Mamie refused persistently to take the prescribed pill. Her mother resorted to strategy, and concealed the pill in some preserved pear, and then gave it to Mamie to eat. A little later she asked, "Has my little darling eaten her pear?" "All except the seed, mamma, dear," the little darling replied.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Gloucestershire.—The returns of the Insurance Committee for 1916 give the total number of prescriptions priced by the Bureau for that year as 1,346,408, of which 98,708 were in respect of Gloucestershire patients. The Committee's proportion of the cost of pricing prescriptions under the new arrangement came out at 137*l.* 5*s.* 9*d.*

London.—A meeting of the Pharmaceutical Committee was held at Bank Chambers, High Holborn, W.C., on April 10, Mr. A. R. Melhuish (Chairman) in the chair. The Secretary reported that a deputation representing the Panel and Pharmaceutical Committees for London waited upon the Chairman of the Insurance Commissioners in connection with the allotment of the administrative expenses of these Committees. The Chairman (Sir Edwin Cornwall), who received the deputation, promised that he would place before the House of Commons a short Bill to amend Section 33 (2) of the National Insurance Act. A letter was received from the Central Checking Bureau submitting an interim report of the checking for the year 1916. It was decided that complete statistics for each month of the year 1916 be circulated to members before the next meeting. The accounts completed up to date for the year 1916 show that the total number of prescriptions dispensed was 3,662,043, and the value 97,210*l.* 17*s.* 4*d.* There has been considerable delay by chemists in submitting their accounts for the year. It was reported that certain doctors are in the habit of prescribing two or three London Insurance Pharmacopœia mixtures as component parts of one prescription. It was agreed that specific instances of such prescribing should be immediately reported to the Pharmaceutical Committee. It was alleged that difficulty has been experienced by insured persons in the South-Eastern area in obtaining their medicines after eight o'clock. The Secretary was instructed to make inquiries in the matter. A letter from the Insurance Committee concerning the supply of glycerin and syrup resulted in the announcement that the special Sub-Committee appointed to deal with the question of substitutes for glycerin and syrups in the London Insurance Pharmacopœia preparations is now preparing a list for submission to the proper quarter at the earliest moment. A letter was received from the Insurance Committee submitting prescriptions which had been refused by certain chemists on the panel. The Panel Committee had given the opinion that there is no reason why the prescriptions should not be dispensed. One of the prescriptions contained an order for cocaine-lozenges, and as the conditions of prescribing had not been fulfilled by the doctor, the chemist was justified in refusing to dispense these under the Defence of the Realm Regulations. The subject was left in the hands of the officers of the Committee for investigation and reply to the Insurance Committee.

Smethwick.—At the meeting of the Insurance Committee on April 3, the report of the Medical Benefit Sub-Committee was submitted. Further steps were taken in regard to the draft scheme for appointing a medical referee, who is to be a non-panel practitioner residing out of the Smethwick area. A case in which a chemist's assistant was required by the Tribunal to join the Forces had been referred to the Commissioners, who have now intimated that they cannot recommend exemption in this case. A capitation-fee of 1*s.* per 1,000 insured persons was agreed to be paid to doctors for emergency drugs and dressings in respect of 1917 under Article 12 (3) of the Medical Benefit Regulations. The present dispensing-hours (9 A.M. to 8 P.M.) are to remain the same after the expiration of the Early-closing Order. Particulars were given of the method of calculating the additional payment to chemists of 0.3*d.* per prescription. The method was suggested by the Pricing Bureau, and is to be readopted subject to the concurrence of the Pharmaceutical Committtee. The Finance Sub-Committee reported that payments had been made to chemists in respect of December, January, and February, and 2*l.* 0*s.* 11*d.* had been paid to the Pharmaceutical Committee.

Stoke-on-Trent.—At the meeting of the Insurance Committee on April 5, the Clerk submitted the following resolution, which had been passed at a joint meeting of the Panel and Pharmaceutical Committees: "That chemists' closing-hours be made definitely for 8 P.M., and that a rota be prepared to provide that in each town one chemist shall be on duty until 8.30 P.M. each night for the dispensing of prescriptions." The proposal was adopted, subject to the Panel Committee undertaking that individual medical practitioners will supply medicines to their patients in all urgent cases after the hours referred to.

Associations' Winter Session.

Brighton.—A meeting of the Brighton and Hove Association of Pharmacy was held on March 22, when Mr. Hugo Wolff gave an address on *Pharmacy as a Profit-making Profession.* In the course of his remarks Mr. Wolff referred to the constantly recurring question, "What is wrong with pharmacy?" and contended that the pharmacist can make money if he works on the right lines. Mr. Wolff compared the chemist who is content with the monopoly of protection in poisons with the man who spends part of the day in a gold-mine and the rest in the canteen. Although "salesmanship" is not a part of the chemist's curriculum, the attention given to it by the stores is worth noticing. Owing to the National Insurance Act chemists have now more people in their shops than ever before, and as they are all potential customers the present time is unique for increasing the volume of sales. Broadly speaking, of a chemist's turnover 60 per cent. might stand for buying expenses, 20 per cent. for working expenses, and 20 per cent. for profit. To make the business lucrative it is necessary to work up the sales volume, because both buying and working expenses are generally fixed. Increase of sales does not mean increased expenditure. Mr. Wolff said that turnover can be largely augmented by suggested and supplementary sales. It is necessary to consider things from the customer's point of view. People will have branded goods, and it is much more satisfactory to sell a man a bandage with a bottle of advertised liniment than to waste one's time persuading the customer that your own make of liniment at half the price is much better. Good service, right prices, a clean shop, never-failing courtesy, and consideration for the public are the essentials for success. Mr. Wolff afterwards gave useful hints on the question of Drug Tariff revision.

Cambridge.—A meeting of the Junior Pharmaceutical Association was held on April 3, when Mr. A. Shrubbs gave a lecture on *Photosynthesis.* He began by explaining that photosynthesis had to do with food-production; and after explaining what a plant is, and showing the close resemblance between plants and animals in their lowest orders, the lecturer went on to show, with the aid of the blackboard, how, from the soil and atmosphere, chemicals and gases are combined to form protoplasm, and how that material can again be broken down into the various elements. The necessity of sunlight for the building-up process of plants was insisted upon, after which leaf-structure, chlorophyll, and the production of starch were discussed.

Halifax.—A meeting of the Halifax Chemists' Association was held on March 28, the President (Mr. A. Taylor) in the chair. The principal business of the evening was the consideration of circular letters P.S. 35 and 36. Respecting venereal diseases, a strong resolution was passed condemning the wording of the Bill referring to the "sale," by pharmacists, of drugs, medicines, and serums used in the treatment of venereal diseases. It is to be hoped a stiff fight will be put up on behalf of pharmacists as being part of their legitimate business, and, if the right of free sale of these articles has to be relinquished, a still stronger effort would be put forward to retain for chemists the right of dispensing these articles. Mr. J. A. Sutcliffe was elected representative on the West Riding (North Division) Committee for the substitution and reinforcement of labour.

Hull.—A meeting of the Hull Pharmacists' Association was held on April 3. Mr. L. S. Sellé (President) in the chair. Mr. F. G. Hines, York, attended to address the meeting regarding his claims for support as a candidate at the forthcoming Council election of the Pharmaceutical Society. The President remarked that this was the first meeting of the Association at which a candidate had thought it worth while to attend and explain his views. Mr. Hines said he thought there ought to be a contest, despite the war. Mr. Sergeant, in criticising his speech at Harrogate, said some people cherish a myth that the powers of the Council are limited by the Charter, and he quoted a statement by the President, who said that some people forget that the powers of the Society are limited. Continuing, Mr. Hines said he is in favour of territorial representation, and there is a movement towards Federation of which he is in favour. On the Council there is no real desire for reform. The men and the method are always right. There is a settled policy of turning down all Federation ideas. There is a clear idea in the country that

business interests could be better handled by the Federations. He considered the Checking Bureau of the Society to be a positive farce. The Society's business ideas are not organised. He much admired the Ucal organisation and Mr. Miller's work in trying to get more money for chemists. What is needed is a Federal Union; the Executive Committee also must be more than a packed jury. It must have the interests of the calling at heart. Chemists ought to have for their central organisation a house of their own entirely apart from the atmosphere of Bloomsbury Square. A good discussion followed.

Irish Assistants.—A meeting of the Irish Chemists' Assistants' Association was held recently in Dublin, Mr. J. Hagan in the chair. A report was received from the Sub-Committee, which has been making known among assistants the claims of the Association for support. This was considered satisfactory. Mr. Blood (the Treasurer) reported that the subscriptions are not forthcoming as evenly as he could wish, but otherwise the prospects are good.

London (W.).—A meeting of the Western Pharmacists' Association was held at the Restaurant Frascati, Oxford Street, W., on April 11, Mr. W. Wilkinson in the chair. Mr. Shirtliff, the Hon. Secretary, reported on the meeting of the Pharmaceutical Committee, and a member present raised the question as to the necessity of placing Insurance prescriptions containing poisons in a book, as required by the Pharmacy Act. The Secretary is to bring the matter forward at the next meeting of the Pharmaceutical Committee. The President then made an appeal on behalf of the *Parliamentary Representation Fund*, and subscriptions amounting to 8*l.* 13*s.* were collected in the room. Mr. T. F. Lescher then opened a discussion on *The Sugar and Glycerin Position.* This proved to be an authoritative statement of the present position in regard to these essentials of pharmacy. Various statistics were given of the consumption of these commodities in pharmacy during normal times and at present when the demand has very much increased. The speaker had no hope that more glycerin would be available for use in medicine, as it is unquestionable that the demands of the munition-factories should not be interfered with in any way. The only way chemists can obtain supplies is by exchanging their surplus with others not so fortunately situated. Permits to obtain glycerin from a small stock in the hands of the manufacturers will, said Mr. Lescher, be granted to chemists if a proper and sufficient reason can be shown, but the fact that it is required for dispensing is not, in the opinion of the Ministry of Munitions, sufficient justification for releasing any stock of glycerin. An arrangement has now been made by which certain gelatin capsules may be made with glycerin (see p. 42). Glycerin can be imported by permission, he said, but the price is prohibitive. At present glycerin is only permitted for use in preparations of the British Pharmacopœia and for glycerin of belladonna. Mr. Lescher then reviewed the sugar position, and, after recounting the steps taken by the wholesale houses to put the urgency of the question before the Food Controller, stated that there is reason to believe that now the authorities are seized with the importance of the matter, and some good should come of the representations that have been made. The supply of spirit has been placed on a satisfactory basis through the intervention of the National Health Insurance Commissioners, who are, said Mr. Lescher, "the drug experts of the Government." The discussion which followed was instructive. It appears that doctors are ordering half-pints and pints of glycerin on prescriptions "for external use." Mr. Melhuish said that he has been endeavouring to find a substitute for glycerin which doctors could use in medicine and in stock mixtures in the same manner as glycerin. He has evolved a mist. tragac. dulc., which consists of half-strength muc. tragac. in double strength aq. chloroformi. This answers well for "syrups," such as tolu and orange, the former being made with the liquor. "A little saccharin added to the mist. tragac. dulc. is an improvement," said Mr. Allen. Mr. Lescher, in reply to the remarks that had been made, reminded the meeting that such things as tragacanth and quince are very scarce. He suggested that invert sugar might be useful in some of the cases where glycerin is required.

Society of Chemical Industry.—At the meeting of the Nottingham section in the University last week, Dr. R. M. Caven, F.I.C., F.C.S., who presided, spoke of the spirit of co-operation which is now marking British chemical industry, and stated that too much cannot be said as to the excellent work which Messrs. Boots are now engaged upon at their laboratories in Nottingham in producing medicinal and other chemicals. Papers were read by Dr. E. B. R. Prideaux, M.A., on "The Stannous Reduction Method for Estimating Nitro-Toluenes," and by Mr. S. Bryce on "Some Unusual Adulterations of Drugs," Mr. Bryce stating that despite the war little or no adulteration in drugs has been discovered.

Association of Certificated Dispensers.

The Tenth Annual General Meeting was held in the court-room of the Society of Apothecaries, Blackfriars, London, on March 29. Mr. A. Bingham Watson (Clerk to the Society of Apothecaries) presided over a good attendance, and, in an introductory address, gave an interesting *résumé* of the origin and history of the Society of Apothecaries.

The balance-sheet of the Association for the year, showing 90*l.* 14*s.* 7*d.* standing on the credit side, was adopted. The Hon. Secretary (Mr. F. E. Trayner) submitted his report, which mentioned the matters considered by the Committee during the year. Chief among these were the action successfully taken to obtain increased remuneration for dispensers in Red Cross hospitals, and the course pursued with the object of obtaining the privilege of registration under the Pharmacy Acts, in so far as the Poisons and Pharmacy Act, 1908, Section 4 (*b*), provides. The attention of the meeting was directed to "the illogical position taken up by the Pharmaceutical Society, which had alternately temporised, promised, and refused to perform its plain duty under the Act." Reference was made to the pressure exercised by the Privy Council in the same connection, also to the question put by Sir William Collins, M.P., in the House of Commons on February 27 and the Home Secretary's reply (*C. & D.*, March 3, p. 44).

Mr. Bingham Watson then addressed the meeting, and after asking to be provided with certain material facts, stated his intention to assist the Association in its struggle for its legal rights, and promised to use all his influence with the parent Society to this end.

The election of the Executive was the next item on the agenda, and with minor exceptions the Committee were re-elected *en bloc.* Mr. Trayner then explained the necessity for his being relieved of the purely routine work attaching to his office, as he found that he had too little time to do justice to the more important work, and it was unanimously decided that Miss A. Falck be appointed Joint Hon. Secretary for general matters, Mr. Trayner to give his available time in the future to matters of policy. At the conclusion of the business Mr. Watson escorted the members over the ancient edifice, and his interesting account of the objects of antiquarian interest in the old Hall brought the evening to a close.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(*From "The Trade-marks Journal," March 28, 1917.*)

"Claire de Lune" and "Souviens Toi"; for perfumery, etc. (48). By the Standard Tablet & Pill Co., Ltd., Hove. 376,416/915.

"Decoltene" for all goods (48). By Robartes, Ltd., 128 Jermyn Street, S.W. 376,556.

"Tally-Ho," "Eclipse," and "Talisman"; for hair-combs (50). By the North British Rubber Co., Ltd., Edinburgh. 376,918/19/88.

(*From "The Trade-marks Journal," April 4, 1917.*)

Device of star with letters "A-L" ("A-L" disclaimed); for acetylene-gas dissolved in acetone for welding-purposes (1). By A-L Meteorlite, Ltd., 106 Victoria Street, Westminster. 373,513. (Associated.)

"Osmol" and "Solafin"; for chemicals (2). By Osmond & Son, Ltd., Doughty Road, Grimsby. 376,780/1.

"'Twiset' Insecticide-Fungicide Poisonous to Pests" on oval label; for insect and fungus destroyers (2). By George Young (Chemists), Ltd., Sugar House Lane, Stratford, E. 376,818.

Picture of bandaged man with crutch and holding bottle; for a liniment (3). By R. G. Sparrow, Park Road Chambers 11, Nottingham. 376,955.

"Laborax" and "Laborax Leerdam" ("Leerdam" disclaimed); for general glassware (15). By Naamlooze Vennootschap Glasfabriek "Leerdam" Voorheen Jeekel, Mijnssen & Co., Leerdam, Holland. 375,227/8. (Associated.)

"Sepra" and "Sillus"; for food-substances (42). By H. W. Crowe, Roslin, Bromley Grove, Shortlands, Kent. 376,891/2.

"F. G. Garton & Co." in facsimile; for food-substances (42). By The Midland Vinegar Co., Ltd., 253 Tower Road, Aston Cross, Birmingham. 376,922. (Associated.)

"Velbumen" and "Velyolk"; for food-substances (42). By The Southern Cotton Oil Co. of Great Britain, Ltd., 18 Creechurch Lane, E.C. 3. 376,931/2. (Associated.)

"Chant Sans Paroles" and "Un Hymne Sans Paroles"; for perfumery, etc. (48). By The Standard Tablet & Pill Co., Ltd., Hove. 376,417/8. (Associated.)

"Iced Eau de Cologne" on label, surrounded by icicles ("Iced" disclaimed); for Eau de Cologne made in England (48). By Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool. 375,481. (Associated.)

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, April 12, 5.30 p.m.

The markets having been closed during the greater period covering this report, there is littlo of outstanding interest in price changes. Thero is, however, a firmer tendency among several of the fino chemicals, including hydroquinone, potash bromide, tannic acid, hexamine, formaldehyde, and acetanilide. Glucose, shellac, linseed, and cottonseed oils are dearer. Balsams like peru, tolu, and copaiba are all firm. Lemon oil is flat and lower. Menthol quiet, but Japanese dementholised oil has been in good demand to arrive at steady prices. Japanese camphor is scarce on spot. Cream of tartar and tartaric acid are firmer. Castor oil is dearer, and clove oil is firm. Shellac is much higher. The parcel-post to Russia has been entirely suspended, which for the moment puts an end to the large business in spices (particularly pepper) and chemicals like citric acid, which were sent by this route. It is still a little early to say what changes are likely to occur in the prices of certain products as the result of the American declaration of war against Germany, but some markets will require close watching, as the changes will bo sudden when they do come. The fact may have to be reckoned with that there is the possibility of the United States Government commandeering all supplies of chemicals requisite for the explosives-industry, and the question of tho Governments acting in unison may arise.

Higher	Firmer	Easier
Cottonseed oil (ref.)	Acetanilide	Lemon oil
Glucose	Balsam Peru (N.Y.)	Menthol
Hydrastis	Coconut oil	
Linseed oil	Cream of tartar	
Shellac	Hexamine	
Turpentine	Hydroquinone	
	Potash bromide	
	Soy	
	Tannic acid	
	Tartaric acid	

Cablegrams.

Bergen, April 5.—The cod-fishing in the Lofoten district is poor, being only 2,400,000 for the week. The catch to date amounts to 16,700,000, against 32,200,000 at the corresponding period of last year, and the yield of steam-refined cod-liver oil is 25,000 barrels, against 38,900 barrels at the same date of 1916. There is no business to report and no quotation is available.

Bergen, April 12.—The cod-fishing continues poor, the total catch being 18,500,000, against 37,500,000, and the yield of oil 26,007 barrels, against 45,674 barrels at the same period of last year.

New York, April 5.—Business in drugs is quiet. Menthol is lower at $3.25. Cartagena ipecacuanha has been advanced to $2.5, and gentian has been reduced to 15c. per lb. Copaiba balsam is dearer at 72½c., buckthorn bark is lower at 22c., and short buchu-leaves are also cheaper at $1.25.

New York, April 12.—Business is quiet. Menthol is lower at $3.20 per lb. Hydrastis (golden seal) has been advanced to $5.50 per lb. Cartagena ipecacuanha is lower at $1.90. Copaiba has been advanced to 75c. Buckthorn-bark is lower at 21c., and pepperment oil in tins is steady at $2.20 per lb.

Acetanilide.—Tho demand has much increased, it being realised that this is one of tho cheapest antipyretics on tho market, especially in view of the scarcity and high price of phenacetin and phenazone; from 3*s.* 2*d.* to 3*s.* 3*d.* per lb. net is quoted.

Acetyl-salicylic Acid is unchanged at from 14*s.* 6*d.* to 15*s.* per lb., but in United States the quotation is slightly higher than tho foregoing. In view of the high cost of acetic anhydride, the present value must be almost unprofitable both at homo and abroad, but competition continues.

Ammonia Sulphate.—Homo trado price as fixed by the Government is 15*l.* 10*s.* per ton, and there appears to bo a good demand. Exports aro prohibited except under licence.

Arsenic is still very firm and scarce, tho value of good white Cornish powder being from 65*s.* to 70*s.* per cwt.

Balsams.—*Peru* is firm at 15*s.* 6*d.* por lb. net on spot, and to come forward from New York from 14*s.* 6*d.* to 15*s.* c. and f. is quoted. *Tolu* is also firm at 2*s.* per lb. spot. *Copaiba* is still scarce, with B.P. quality offering at from 4*s.* 10*d.* to 5*s.*; filtered Para in cases at 3*s.* 6*d.*, and unfiltered Maranham in casks at 5*s.* per lb. *Canada* in cases is 4*s.* 6*d.* net.

Bromides.—Spot supplies of potassium aro still vory scarce, and 6*s.* per lb. net is now being quoted for granular, and probably crystals at the same price. Ammonium is 4*s.* 3*d.*, and sodium is plentiful and still to be had at 2*s.* 6*d.*

Calumba.—Retail sales of fair washed sorts have been mado at 65*s.* per cwt.

Camphor.—Japanese refined 2½-lb. slabs are offered in small lots at 3*s.* 10*d.*, and ¼-oz. tablets at 3*s.* 11*d.* to 4*s.* on spot. The details of exports from Japan for tho past three years, given in last woek's issue, contained an error, 289.807 ven being credited as shipped to Germany during 1916, whereas the figures relato to 1914, and were "kin," not "yen." The following are the corrected particulars:

	1914 Kin	1915 Kin	1916 Kin
British India ...	907,211	1,342,504	1,416,041
Great Britain ...	377,596	321,674	639,135
France	264,069	530,222	379,862
Germany	289,807	—	—
United States ...	765,285	1,035,263	2,654,438
Australia ...	110,218	170,394	92,605
Other countries ...	359,638	479,974	571,781
Kin	3,073,824	3,880,031	5,753,862
Yen	2,780,001	3,475,415	6,287,795

Canary-seed is steady, at 79*s.* to 81*s.* per quarter for fair to good Morocco.

Caramel.—Becauso of the sugar difficulty, the factories only accept orders in rotation. The shortage of labour also affects the supplies.

Castor Oil is 3*l.* per ton higher, Hull make of first pressing in barrels offering at 75*l.* per ton f.o.b. for either prompt or forward delivery.

Chloral Hydrate.—A few large transactions are reported on the basis of 7*s.* per lb. net in bond.

Citric Acid is firm at 3*s.* 5*d.* per lb. on tho spot.

Clove Oil remains firm at from 5*s.* 10*d.* to 6*s.* per lb. for English distilled, according to quantity.

Cloves havo been quiet and prices nominal in the absence of business, fair Zanzibar offering at 8⅞*d.* on tho spot; stock is 19,964 bags, against 10,825 bags in 1916.

Cocaine.—Small lots have been sold to regular consumers at 26*s.* per oz. for hydrochloride. It is not easy, however, to obtain supplies at this figure.

Codeine is firm at 21*s.* per oz. net for pure alkaloidal crystals. 17*s.* for phosphate, and 18*s.* for sulphate and hydrochloride.

Cod-liver Oil.—Our Bergen correspondent writes on March 19 that the official reports give the following totals of cod-fisheries up to date:

	1914	1915	1916	1917
Catch of cod (millions) ...	35.2	30.6	19.4	9.8
Yield of c.l.o. (hect.) ...	28,200	28,000	24,200	15,400
Liver for "raw" oils (hect.)	5,300	5,000	3,000	2,200

A further report gives the total up to March 24:

	1914	1915	1916	1917
Catch of cod (millions) ...	45.2	36.4	26.3	14.3
Yield of c.l.o. (hect.) ...	34,600	32,400	32,500	20,800
Liver for "raw" oils (hect.)	6,400	5,900	3,300	3,000

In our issue of March 31 we reported that considerable purchases of Newfoundland oil have been made of late in St. John's by British interests. Messrs. Job Brothers, of Liverpool, inform us that there is nothing unusual about this, as English interests have been and always are steady

buyers in the Newfoundland market. This season's stocks of Newfoundland non-freezing oil are, however, almost, if not quite, exhausted, and only insignificant quantities remain. On the spot (London) Norwegian medicinal oil of last year's crop can be had at from 390*s.* to 400*s.* per barrel, and for non-freezing Newfoundland 13*s.* 6*d.* net per gallon is quoted.

Writing again on April 2, our Bergen correspondent states that the fisheries are being carried on, but with very small results. The official report give the following totals to the end of March:

	1914	1915	1916	1917
Catch of cod (millions) ...	52.7	42.9	32.2	16.7
Yield of c.l.o. (hect.) ...	39,900	35,300	38,900	24,900
Liver for "raw" oils (hect.)	6,600	6,300	3,700	2,550

Copper Sulphate.—A fair quantity has been bought by home consumers for agricultural purposes at the special quotation. Exporters have been allowed to ship rather more freely, the quotation being about 61*l.* to 61*l.* 10*s.* per ton.

Coriander-seed has been sold at 67*s.* 6*d.* per cwt. c.i.f. terms for Morocco on passage, being steady.

Coumarin.—Small spot sales have been made at 60*s.* per lb.

Cream of Tartar is 2*s.* 6*d.* per cwt. higher at from 205*s.* for 98 per cent. and 207*s.* 6*d.* for 99 to 100 per cent. on the spot.

Cumin-seed continues neglected, and no sales are reported; the quotation is unchanged at 82*s.* per cwt. for sifted Morocco.

Dill-seed is firm, at 38*s.* to 40*s.* per cwt. on the spot, and at 38*s.* c.i.f. terms for shipment from India.

Fennel-seed is quoted 45*s.* per cwt. c.i.f. terms for shipment from India.

Fenugreek-seed is quoted 38*s.* to 40*s.* per cwt. for ordinary to good Morocco, being unchanged.

Formaldehyde.—There is no change in last week's figures of 110*s.* to 115*s.*, except that the situation in United States is firmer, supplies being difficult to obtain, makers having sold their production for a few months.

Heliotropin.—Small sales have been made at 29*s.* per lb.

Hexamine is rather firmer, at from 3*s.* 3*d.* to 3*s.* 6*d.* per lb on the spot as to seller and quantity.

Hydrastis is rather dearer at 25*s.* per lb. c.i.f. to arrive.

Hydroquinone is firmer at from 11*s.* 6*d.* to 12*s.* per lb. on spot and 10*s.* 6*d.* to arrive.

Iodine Preparations.—Makers' current prices are: Resublimed iodine, 13*s.* 8*d.* to 14*s.* 3*d.*; iodoform, 16*s.* 4*d.* to 17*s.* 2*d.*; potassium iodide, 11*s.* 7*d.* to 12*s.* 4*d.*; sodium iodide, 12*s.* 4*d.* to 13*s.*; and ammonium iodide, 17*s.* per lb., all net.

Lemon Oil.—In the absence of demand prices are lower, there being several offers at 3*s.* per lb. c.i.f.; spot prices are from 3*s.* 6*d.* to 3*s.* 8*d.*

Linseed is firm at 115*s.* to 125*s.* per quarter for good quality.

Methyl Salicylate is offered at 4*s.* 10*d.* to 5*s.* net, and is a comparatively cheap product.

Milk-sugar is still offered at 185*s.* per cwt. on the spot. The American makers have advanced their price to 35c. per lb. owing to a further rise in the cost of crude materials.

Mint Oil.—Japanese dementholised is steady, a fair quantity of Suzuki for April-May shipment having been sold at 3*s.* per lb. c.i.f.: spot price is 3*s.* 3*d.* The exports from Japan during December amounted to 15,076 kin, valued at 39,161 yen. During the year ended December 31 the exports for the past three years have been as follows:

	1914	1915	1916
Kin	277,677	341,249	360,742
Yen	808,809	697,358	844,508

Morphine.—For the regular home trade requirements makers supply the hydrochloride-powder at 13*s.* 6*d.* per oz. net.

Peppermint Oil.—A small business is passing, at from 11*s.* to 11*s.* 3*d.* per lb. net on the spot; the consumption has, however, fallen off very considerably, so that it is doubtful if the high prices asked by America will be realised.

Phenacetin still continues scarce, and America is only delivering very slowly, makers there having sold their output up to August.

Phenazone.—A fresh consignment is coming forward from Switzerland; demand, however, appears to have fallen off since the price was raised.

Pimento.—Spot sellers quote $4\frac{3}{16}$*d.* to $4\frac{1}{4}$*d.* per lb.

Pyramidon is offering at 58*s.* per lb. net for parcels to arrive.

Pyrogallic Acid and all tannic products in United States are becoming firmer.

Quicksilver is obtainable at 20*l.* per bottle if the buyer has obtained a permit, but without it the price is 25*l.*

Quinine.—The second-hand price remains unchanged at from 2*s.* 8*d.* to 2*s.* $8\frac{1}{2}$*d.* per oz.; speculative demand is very small, but the consumption is good. Makers are still reluctant to make large sales forward owing to the difficulties of obtaining raw materials.

Salicylates.—Several makers in America have ceased production, so that the competition there has been lessened. In addition to this there are the very heavy freights and charges to pay, so that American makes may no longer be obtainable at the old prices. Sodium salicylate on the spot is difficult to obtain except in very small lots, and buyers would have to pay 5*s.* 6*d.* to 5*s.* 9*d.* American powder afloat is offering at 5*s.* to 5*s.* 3*d.* per lb. Salicylic acid is unchanged at from 3*s.* 10*d.* to 4*s.* per lb. on the spot as to quantity and maker.

Salol is steady at 9*s.* to 9*s.* 3*d.* per lb. on the spot, but the demand is small.

Shellac.—The spot market shows an advance of about 10*s.* per cwt., closing at from 215*s.* to 216*s.* for the usual standard TN Orange quality, and fine Orange 280*s.* AC Garnet is now 220*s.* spot for blocky.

Soda Nitrate is firm and scarce, refined on spot being nominal at 23*l.* 10*s.* per ton; in Liverpool 24*l.* net is quoted.

Soy is firmer at 3*s.* 8*d.* per gallon duty paid on spot.

Tamarinds.—A parcel of new Barbados has arrived, for which holders ask 40*s.* per cwt., duty paid.

Tannic Acid is firmer at from 6*s.* to 6*s.* 6*d.* per lb. for *levisa* on the spot.

Tartaric Acid is firmer at from 2*s.* 10*d.* to 2*s.* 11*d.* per lb. on the spot.

Turpentine is dearer, American on spot closing at 53*s.* 9*d.* per cwt., an advance of 1*s.* 3*d.* on the week.

Wax, Vegetable.—Sales of waxy *Carnauba* are reported at 165*s.* per cwt. on spot, with 167*l.* 6*d.* asked. Of Japanese vegetable wax, sellers to arrive quote April-May shipment at 67*s.* c.i.f.; spot price is 75*s.*

German Drug-markets.

The following prices are from the Berlin and Hamburg markets up to March 5:

Colocynth.—Imports came to a complete standstill several months ago. Whole fruit is from m.220 to m.230 per 100 kilos.

Frangula-bark.—Old is very scarce, and prices have advanced considerably, as the new crop cannot be expected before June or July, and is expected to be very unsatisfactory too. Whole bark is from m.80 to m.84 per 100 kilos.

Gum Acacia is without interest in the open market in consequence of the commandeering of all stocks that exceed 10 kilos.

Naphthaline is very active, but the makers cannot offer it for "free" trade, as all crude is commandeered on behalf of the Navy, and the manufacture of pure naphthalin is prohibited.

Potassium Cyanide.—The price of 99-100 per cent. is m.175 per 100 kilos. For *Potassium ferrocyanide* the Convention has fixed the price at from m.230 to m.235 per 100 kilos.

Thymol is m.80 per kilo. still.

Vanillin is only obtainable in very small quantities at very high prices.

Arrivals of Chemicals, Drugs, etc.

The following is a selection of arrivals in the Port of London during the period March 27 to 31 inclusive. The countries specified are those from which the goods are consigned.

Acetic acid (U.S.) 796 brls. 30 cbys.
Albumen, egg (Ch.) 9,868*l.*; egg-yolk (Ch.) 3,281*l.*; egg-liquid (Ch.) 7,868*l.*
Alcohol, wood (Can.) 3,500 gal.
Angelica-root (Fr.) 8 bls.
Annatto paste (Fr.) 1 cs.
Antim. ore 15 tons
Antim. reg. (Ch.) 165 tons
Antitoxin, tet. (U.S.) 2 cs.
Argol (Port.) 783 bgs., (Sp.) 390 bgs.
Arsenic (Port.) 1,100 cwt.
Asafetida (Pers.) 31 cs.
Asthma-cure (U.S.) 3 cs.
Bals. peru (U.S.) 1 cs.
Bals. tolu (U.S.) 5 cs.
Barbitone (Fr.) 1 cs.
Benzoin (Fr.) 2 cwt.
Benzyl benzoate (Swz.) 1 cs.
Buchu (Cape) 10 bls.
Calamus-root (Holl.) 10 bls.
Calc. citrate (B.W.I.) 171 pkgs. 83 bgs., (Br. Gu.) 7 bgs.
Calc. tartrate (Sp.) 38 brls.
Cannab. ind. (B.I.) 6 cs.
Cantharides (Jp.) 9 cs.
Casein (B.I.) 360*l.*
Cashew-nuts (B.I.) 100 cwt.
Cerium nit. (U.S.) 22*l.*
Chemical prod., unrated (Fr.) 184*l.*
Chloral hyd. (U.S.) 4 cs.
Copaiba (U.S.) 20 cs.
Copra 8,303 cwt.
Coumarin (Holl.) 1 cs.
Cream of tartar (Fr.) 50 kgs. 25 cks., (It.) 36 pkgs.
Dental goods (Swz.) 1,217*l.*, (U.S.) 267*l.*
Drugs, unrated (Swz.) 176*l.*, (Fr.) 30*l.*
Eucalypt. oil (Vic.) 100 cs.
Filtering-paper (Fr.) 39*l.*
Fullers' earth (Jp.) 10 tons
Galls (Ch.) 1,350*l.*
Glycerin, dist. (U.S.) 36*l.*
Glycerophos. lime (Fr.) 1 cs., (U.S.) 3 cs.; sodium 1 cs.
Ground-nuts (S. Nig.) 320 cwt.
Gums: copal (B.E. Af.) 125 cwt., (S.S.) 375 cwt.; damar

(S.S.) 251 cwt.; grass tree (Vic.) 270 cwt.; kauri (N.Z.) 482 cwt.; olibanum (B.I.) 100 cwt.; tragacanth (Pers.) 12 bls.
Henna-leaves (Fr.) 20 bls.
Herbal tabs. (U.S.) 9 cs.
Herbs, dried (Fr.) 45 bls.
Honey (Cuba) 837 cwt., (U.S.) 1,243 cwt., (B.W.I.) 4 cwt.
Hops (Canada) 1,080 bls.
Indigo (B.I.) 4 cs. 10 chts., (S. Salvador) 212 pkgs.
Lavender-flow. (Fr.) 8 bls.
Lead acetate (U.S.) 31 brls.
Lime-juice (B.W.I.) 121,423 gal.
Liquorice-juice (It.) 40 cs.
Liquorice-root (It.) 10 bgs.
Lithia carb. (U.S.) 9 brls.
Magnes. carb. (Can.) 2 cs.
Menthol (Jp.) 150 cs.
Mercurial salts (It.) 4 cs.
Methyl sal. (U.S.) 4 cs.
Milk-powder 100 cwt., (Vic.) 1,686 cwt., (U.S.) 24 cwt.
Oils, essential, natural (Fr.) 22 cs., (It.) 29 cs. 6 × ½ cs., (B.I.) 10 pots, (H. Kong) 20 cs., (B.W.I.) 44 cs. 5 jars, (Br. Gu.) 1 cs., (Jp.) 45 cs.; artificial (Holl.) 1 cs., (Swz.) 31 cs., (U.S.) 24 drms. 10 cs.
Oils, fixed: arachis (Holl.) 100 brls., (Jp.) 4,500 cs.; coconut, ref. (Fr.) 140 cs.; fish (Jp.) 1,300 cs.; herring (Jp.) 1,500 cs.; olive refined (Fr.) 50 gals.; rape (Jp.) 1,000 cs.; soya (Jp.) 1,983 cs.; wood (Port.) 95*l.*, (Ch.) 1,914*l.*
Ointment (U.S.) 778*l.*
Palm-kern. (S. Nig.) 300 cwt.
Paraldehyde (U.S.) 9 cs.
Phenolphthalein (Jp.) 1 cs.
Perfumery, unrated (Fr.) 247*l.*, (Swz.) 185*l.*, (U.S.) 196*l.*; toilet-powder (Fr.) 272*l.*
Pot. iodide (Jp.) 20 cs.
Rosin (Port.) 53 cks. 32 brls., (Fr.) 450 cks. 150 brls.
Salicylic ac. (U.S.) 1 cs.
Saltpetre (B.I.) 14,057 cwt.
Scopolia-seed (Jp.) 7 bgs.
Seeds: canary (Mor.) 1,000 bgs.; caraway (Fr.) 21 bgs.; cotton (Egy.) 275 tons; cumin (Mor.) 32; fenugreek (Mor.) 333 bgs.; gingelly (Cb.) 700 bgs.; linseed (B.I.) 32,184 bgs., (Jp.) 504, (Cb.) 1,200; millet (Jp.) 1,400 bgs.; sesame (Ch.) 1,699 bgs.
Senega (U.S.) 22 bls.
Senna (Egy.) 33 bls.
Soap, household (Fr.) 182*l.*
Soda bromide (U.S.) 2 cwt.
Soda caustic (U.S.) 84 cwt.
Soda diethylbarb. (Swz.) 2 cs.
Soda hydroxide (U.S.) 2 cwt.
Spermaceti (U.S.) 202 cs.
Spices: cassia (Jp.) 100 bgs.; cinnamon 150 bls.; nutmegs 100 cs. 80 bgs.; pepper (Jp.) 400 bgs.
Starches: farina (Jp.) 4,900 cwt.; rice (Fr.) 563 cwt.; potato flour (Jp.) 1,308 cwt.
Subitol (Jp.) 20 cs.
Sulphonal (Swz.) 3 cs.
Talc (It.) 250*l.*
Tamarinds (B.W.I.) 10 brls.
Tartaric ac. (Fr.) 20 cks.
Thorium nit. (U.S.) 2,698*l.*
Trional (Swz.) 1 cs.
Vacuum flasks (Jp.) 557*l.*
Vanilla (It.) 5 pkgs., (Fr.) 7 cs.
Vanillin (U.S.) 2 crts.
Wax, bees' (Egy.) 20 bls., (B.I.) 12 cs., (Fr.) 24 cs., (Mor.) 11 bgs.
Wax, paraffin (U.S.) 3,611 cwt.
Wine-lees (Fr.) 22 bgs

From Monday, April 2, the Board of Customs and Excise ceased to publish the countries whence imports are shipped or consigned. The following are among the arrivals in the Port of London during the period April 2 to 7 inclusive:

Absorbine 6 pkgs.
Acetanilide 7 brls.
Acetic acid 207 brls. 40 cbys.
Albumen, blood, 40 cks.
Ammon. phospb. 105 brls.
Anise oil, star, 20 cs.
Anise, star, 10 cs.
Annatto 6 cs.
Antim. ore 45 tons
Antitoxin tet. 105 bxs.
Argent. protein. 1 cs.
Argol 345 bgs.
Arsenic 3,208 cwt.
Baking-powder 800 cs.
Bals. Peru 20 cs.
Bals. tolu 10 cs.
Barbitone 4 cs.
Barytes 2,000 bgs.
Bayberry-bark 12 bls.
Betanaphthol 2 pkgs.
Butter-colour. 1,300 kgs. 6 cks.
Campbor 25 cs.
Cannab. ind. 6 cs.
Cardamoms 44 cs.
Casein 2,460*l.*
Casbew-nuts 1,800 cwt.
Celluloid, raw 30,796*l.*
Cbloral hyd. 6 cs.
Citric acid 160 kgs.
Cbbalt sulphate 6 brls.
Cochineal 38 bgs.
Copra 64,240 cwt.
Cream of tartar 80 cks. 8 brls. 30 kgs.
Cutcb 1,000 bxs.
Dental goods 2,348*l.*
Diacetylbannin 1 cs.
Dioxogen 200 cs.
Drugs, various, 197 pkgs. 9 cs.
Ergoapiol 18 cs.
Eucalyptus oil 260 cs.
Formaldehyde 212 brls.
Formic acid 578 dmjns.
Gallic acid 4 cs.
Gelatin 643*l.*
Gentian 120 bgs.; powder 5 bgs.
Glycerin, dist., 2,630*l.*
Glyceroph. lime 5 cs.
Ground-nuts 31,495 cwt.
Gums: acacia 3,247 cwt.; kauri 200 cwt.; olibanum 23 cwt.; tragacantb 33 cwt.; unrated 200 cwt.
Hellebore pow. 10 bgs.
Herbs, dried 176 bgs.
Hexamine 28 cs.
Hydroquinone 16 pkgs.
Indigo 15 chts. 7 serons 13 pkgs.
Kava-kava 6 bgs.
Lanoline 1,500*l.*
Liniment 996 cs.
Logwood ext. 5 brls.
Magnesia, milk of, 175 bxs.
Male-fern ext. 1 cs.
Mangan. dioxide 12 dms.
Menthol 73 cs.
Mineral white 141*l.*
Monomethylparamidophenol 1 cs.
Oils, essential, 5 pots 109 cs.
Oils, fixed: fish, 300 cs.; fusel 3,395*l.*; peach-kernel 42 cs.; whale 165 dms.
Ointment 48*l.*
Omnopon tabs. 2 cs.
Opium 99 cs.
Paraldehyde 2 cs.
Paranitraniline 2 pkgs.
Pepsin 16 pkgs.
Perfumery, unrated, 3,639*l.*; toilet-powder, 1,495*l.*; water 34*l.*
Pot. iodide 20 cs.
Pot. persulph. 12 cks.
Pyrogallic acid 5 cs.
Quinine 35,000 oz.
Resorcin 1 cs.
Rbubarb 44 cs.
Rose-petals 3 bgs.
Rosin 1,066 cks. 225 brls.
Safrol 10 cs.
Sal hepatica 6 cs.
Salol 12 cs. 52 kgs.
Sarsaparilla 18 bls.
Scammony resin 1 cs.
Seeds: caraway 23 cs. celery 40 bgs.; cotton 503 bgs.; croton 65 bgs.; cumin 60 bgs.; fennel 55 bgs.; linseed 9,757 bgs.; sesame 2,668 bgs.; sunflower 622 bgs.; teel 700 bgs.
Senna 33 bls.
Soap, toilet, 300*l.*
Soda benzoate 18 cks.
Soda bisulphite 726 cwt.
Soda caustic 374 cwt.
Soda salicyl. 2 cwt.
Soda tungstate ammon. 9 cs.
Sponge 555 cs. 178 bls. 132 pkgs.
Starches: farina 500 cwt.; maize 3,500 cwt.; potato flour 1,000 cwt.
Stropbanthus 146 bgs.
Sulphur fumig. 20 cs.
Surg. dressings, plasters, etc. 97 cs.
Synthetic prod. for soap-making, pharmacy, etc. 354*l.*
Talc 234*l.*
Tartaric acid 100 kgs.
Thiocol 2 cs.
Thymol 1 cs.
Turmeric 300 bgs.; bulbs 425 bgs.
Vacuum flasks 65*l.*
Vaseline 365 cs.
Wax (mostly bees') 218 bgs. 315 pkgs. 100 bls. 13 brls.
Wax, paraffin, 10,057 cwt.
Cancelled entries.—Dec. 30, 200 cs. opium; Jan. 4, 160 cs. eucalyptus oil.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Cultivation of Medicinal Plants.

Sir,—The article on "The Cultivation of Medicinal Plants," which appeared in the "Journal of the Board of Agriculture" for February, and which you commented upon on March 24, confounds in no small measure those whom the Board has exhorted during the past two years, not only in its leaflet (No. 288), but also by the speeches of its representatives, to cultivate medicinal herbs as a patriotic act. If the article is not a recantation of its previous utterances and attitude, it is perilously near one, and recantations of utterances not yet cold are dangerous things in the mouth of what should be the higher authority of the country. Either Leaflet 288 and various speeches made by the representatives of the Department during the period of the war, or its recent article, are misleading, or, even worse, both are. Both, in our opinion, show a want of knowledge which is inexcusable in those who should be our leaders. More than once we have had to warn patriots or profit-seekers against the optimism of Leaflet 288, and now we must once more protest against the attempt to smother by the February article the fires kindled in October 1914 and June 1916. The article states that the home demand for "drug-yielding herbs," with the exception of "four essential species," is now met, and that the "four essentials" are likely to be put on the market in sufficient quantity to meet all home demands. Belladonna, henbane, digitalis, and colchicum are referred to, and the statements that "the home consumption of belladonna may be estimated, approximately, as equivalent to 50 tons of dried leaves and about 50 tons of dried root," the quantity of henbane and digitalis "to about 20 to 25 tons of the dried leaves annually," and of colchicum considerably less, are made without any supporting evidence. It is, therefore, incumbent upon the National Health Insurance Commission and the Board to state the authority for their assertion that the four named herbs are the only essential ones. Why, for instance, are male fern and aconite excluded, and why are taraxacum, couch-grass, and valerian, and others included in the British Pharmacopœia, inferentially relegated to a degree of comparative unimportance? It is most important that it should be clearly defined on what authority they state that 50 tons of dried belladonna-leaf and 50 tons of dried belladonna-root, and 20 to 25 tons each of dried henbane and digitalis leaves, constitute the annual home consumption. There is, in addition to the home consumption of the medical profession, the consumption of the drug-factories, two very different matters, and it is misleading to disassociate the one from the other. Besides, large quantities of these and many other drugs are required for export either in the raw condition or in the form of manufactured preparations. The whole question of Imperial need appears to have been jettisoned, but surely the limited view of the medical needs of the United Kingdom cannot be maintained in these days. The quantities mentioned in the article mislead the uninitiated. For instance, 50 tons of dried belladonna-leaves represents, roughly, 300 tons of fresh leaf, and to obtain the supply of leaf it would be necessary to grow 1,200-1,500 tons of herb, which would require an area of about 240 acres, while 50 tons of dried root would need at least 200 tons of fresh root for its production and require three to four years to mature. It appears desirable to attempt clearly to define the present position. It has four aspects—the medical, the producer, the business, the patriotic. Unfortunately little effort has been made to deal with the problem as a whole, hence confusion and discouragement, which, if continued, must lead to inevitable failure. People have been instructed how to cultivate, but not how to market; have been exhorted as to the medical and national needs, but told nothing of the buyers. The origin of the movement for the cultivation of medicinal herbs in this country was twofold: (1) An attempt to meet the "serious" shortage due to the cessation of importations; (2) an attempt to wrest from Central Europe an industry which we are capable of conducting. If this latter policy was desirable in October 1914 and June 1916, how can it be of little or no consequence in February 1917? The patriotic aspect of the proposition is no doubt somewhat outside the province of the Board of Agriculture, but we feel called upon to lay stress upon

its extreme importance. The general position appears to be:

(1) That certain drugs must be regarded as of primary importance, and be cultivated, irrespective of market conditions, and that the market conditions have not produced an adequate home supply of these drugs is made clear by the present shortage.

(2) With adequate encouragement in the initial stages and protection only against unfair conditions later, a herb-industry could be created which would exclude the importation of any medicinal herb to which the soil of this country is adapted.

(3) That, with the exception possibly of digitalis and malefern, cultivation is the only method by which this can be ensured. Mere collection is uneconomical and unsatisfactory, in regard to uniformity of quality and adequacy of supply, due to the low standard of wage imposed by the selling price.

There is also very little doubt that drugs of much higher medicinal value can be obtained by scientific cultivation. While, however, we cannot refrain from expressing regret that the Board of Agriculture, to which the country looks for enlightenment and instruction, should have published an article which has caused widespread, and as we believe unnecessary, depression, we deprecate equally strongly the propaganda which advocates the indiscriminate and unlimited establishment of herb-growing associations, with their chain of drying-sheds, throughout the country, and the collection or cultivation of small quantities of herbs, which must necessarily be of varying qualities. Somewhere between the tempered pessimism of the Board of Agriculture and the rosy exuberance of the herb sentimentalists the truth is likely to be found. After all, the market is a limited one, but is capable of expansion, and no herb should be imported which can be economically grown at home. The economics of the problem demand concentration, not diffusion. The solution is not to be found in the gardens of the cottage, however much we wish it were so, but in cultivated acres, strictly limited in number, and in drying-sheds, etc., thoroughly equipped and conducted on strict business lines. Yours truly,

The National Herb Federation.

Cunard House, 29 Cockspur Street, S.W.

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For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Appreciation.

"Congratulations, you in common with the rest of the drug-trade have kept your end up during these times of stress." So writes a subscriber on renewal of his subscription. (195/32.)

Jay Maeksims
(As he writes them).

(1) Carlyle said "This is a world of facts, and success depends on fidelity to facts."

(2) Yet Carteighe altered our Preliminary examination twenty-five years ago in face of facts and stopped the supply of apprentices (as Maben says).

(3) The Council has refused to alter the Minor in spite of twenty years of hard facts (they raised the fees, though).

(4) Dentists and chartered accountants have all been hit by facts, and, like us, have created other and more powerful Societies in opposition.

(5) Yet Manchester, in face of facts, seeks super-science and social position; it pursues *what might be* instead of tackling *what is*.

(6) That Department of Health is our only hope; it at least will deal with the fact that the unqualified are necessary as the only source of the future qualified.

Did the Chemist Blush?

A lass, about fifteen or sixteen, called in here one night recently and asked to see some face-powders. She did not seem to know much about such preparations or how to use them, and had a lot of questions to ask, concluding thus:

Flapper: "What colour would suit me best?"

Chemist: "What colour do you generally use?"

Flapper: "I've never used it before."

I advised her not to start, said it was not a nice habit to begin, and recommended a good toilet-soap to preserve the complexion in place of the ordinary household soap which she said they used at home. She bought some soap and was leaving the shop, when she suddenly wheeled back and inquired, "Have you a cure for blushing?" I replied that it would be an easy matter to make up something which would undoubtedly strengthen the nervous system, adding what was wanted was not physic, but the exercise of personal control. "It would not be fair to take your money on the pretence, or even on the off-chance, that our physic would cure blushing. You must use mental effort—make up your mind about it. What you want is will power." She was deep in contemplation for about half a minute, then replied, "All right, I'll have three-penn'orth o' that."—*C. W. Kemsey-Bourne* (West Bromwich).

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. G. W. (4/13).—You are at liberty to distribute the circulars before April 21, and after that under the conditions which are fully epitomised on p. 43.

L. P. S. I. (251/65) wants to know how to distinguish 450 Saccharin from 550. The British Pharmacopœia test is that 1 gram of 550 saccharin (gluside) dissolves in 12 c.c. of acetone at ordinary temperature, while the lower qualities do not dissolve.

W. K. (246/65).—Bordeaux Wash (*Bouillie Bordelaise*) is made by dissolving sulphate of copper 6 lb. in water 25 gals., and mixing with this a milk made from quicklime 4 lb., slaked and made up with water to 25 gals. The resulting wash is half the usual strength, but it serves the purpose just as well, and if molasses 2 lb. is added to the lime mixture it improves the wash.

S. W. (Johannesburg) (171/21).—The Manufacture of Saccharin.—Saccharin was discovered by Remsen and Fahlberg at Baltimore in 1879, and subsequently manufactured on a commercial scale by Fahlberg. There is not, so far as we are aware, any book published that deals with the manufacturing details, but information is given in works such as Thorpe's "Dictionary of Applied Chemistry." All the patents covering the manufacture of saccharin have expired, but the specifications may be consulted with advantage. The chief patents were: 6626/85, "New Sweet Compound and Process of Manufacturing the same"; 22787/91, "Improvement in the Production of Pure Saccharin"; 10955/96 and 17401/96, "Saccharin or compounds thereof, improvements in the manufacture, etc." The following is an outline of the process of making saccharin: Toluene is converted into *o*- and *p*-toluene sulphonic acids by treating with concentrated sulphuric acid at a temperature below 100° C. The mixture of *o*- and *p*-toluene sulphonic acids is then subjected to oxidation with the formation of about equal quantities of *o*- and *p*-sulpho-benzoic acids. These are converted into the potassium salts, and after drying are converted into the dichlorides by means of phosphorus trichloride and chlorine. The two dichlorides show a different behaviour towards ammonia: that of the *p*-derivative is converted into a diamide which is only slightly soluble in water, whilst the *o*-derivative yields a salt very easily soluble in water. When the chlorination is completed, therefore, the phosphorus oxychloride is distilled off and the calculated amount of ammonium carbonate added, the reaction being started by gentle heat and completed in an atmosphere of carbonic-acid gas. The insoluble *p*-diamide is filtered off, and the filtrate on treatment with an acid yields the sweet substance saccharin. Soluble saccharin is the sodium salt of saccharin.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," April 15, 1867.

The Pharmacy Bill.

Clause 1 of the Bill proposed to make it unlawful for any person to keep open shop for retailing, dispensing, or compounding poisons, *or for compounding the prescriptions of duly qualified medical practitioners*, or to use the title "chemist and druggist," etc. The italicised part was struck out, and there was added to the titles that of "pharmacist," but Clause 15 and Section 15 made it penal for anyone but a pharmaceutical chemist to use that title. Clause 2, referring to poisons within the meaning of the Act, required the Pharmaceutical Council to submit its resolutions to the Medical Council; this was struck out, and approval of the Privy Council substituted. Clauses 3, 4, and 5 were similar to the sections of the Act. Clause 6, dealing with examiners, had added to it five years as the limit of appointment, and provision was made for a Privy Council officer to visit the examinations. Clauses 7, 8, 9, and 10, dealing with fees, the Registrar, and regulations respecting him, became sections of the Act.

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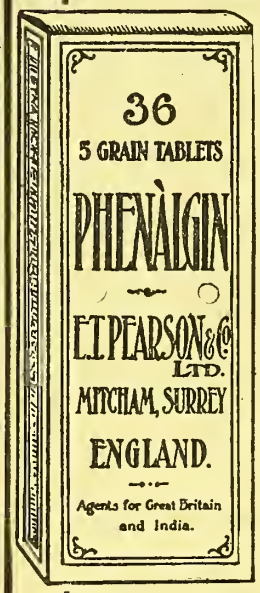

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,, Tannic, B.P., 1 lb. @ 6/6 lb.
,, Tart., cryst. or pulv. B.P., 1885, 7 lbs. @ 2/11½ lb.; parv. ¼d. lb. extra.
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Æsugo Æris Pulv., 14 lbs. @ 2/4 lb.
Aloes Barb., English-ground, 28 lbs. @ 120/- cwt.; 7 lbs. @ 1/3 lb.
Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/7 lb.
Aloin, B.P., 1 lb. @ 5/6 lb.
Ammon. Benz., 7 lbs. @ 29/- lb.; 1 lb. @ 30/- lb.
Ammon. Brom. P.B., 7 lbs. @ 5/6 lb.
Ammon. Carb. lump, 3 cwt. @ 7½d. lb.; 28 lbs. @ 8½d. lb.; 7 lbs. @ 9d. lb.; powder, ½d. lb. extra.
Ammon. Chlor., 99% pulv., 1 cwt. @ 64/- cwt.; 7 lbs. @ 8d. lb.; Batteries, 6/- cwt. extra.
Amyli Pulv., 10 cwt. @ cwt.; 2½ cwt. @ cwt.; 1 cwt. @ cwt.
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Calcii Carb. Præcip., 5 cwt. @ 20/6 cwt.; 1 cwt. @ 25/- cwt.; 28 lbs. @ 30/- cwt.
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Cream of Tartar, 98% powder, 1 cwt. @ 207/6 cwt.; 7 lbs. @ 2/- lb.

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Emp. Picis, P.B., 7 lbs. @ 1/1 lb.
,, Plumbi, P.B., 7 lbs. @ 1/1 lb.
,, Resinæ, P.B., 7 lbs. @ 1/1 lb.
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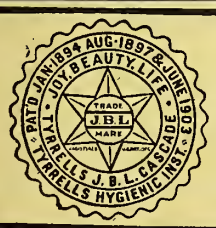

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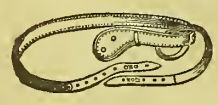

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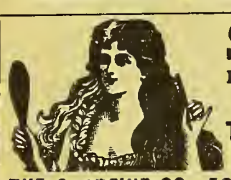

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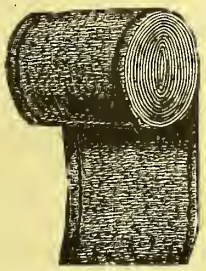

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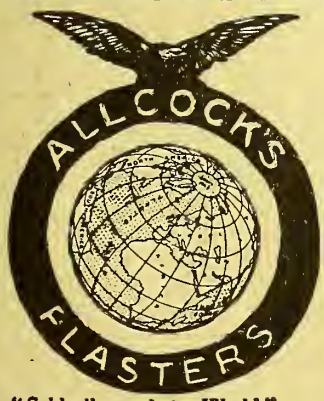

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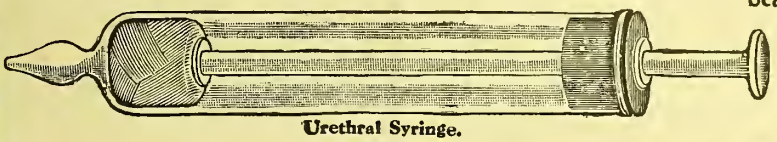

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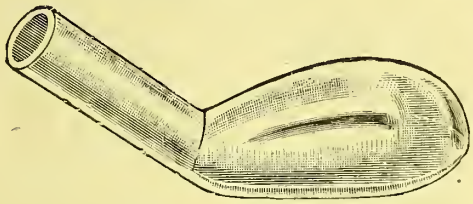

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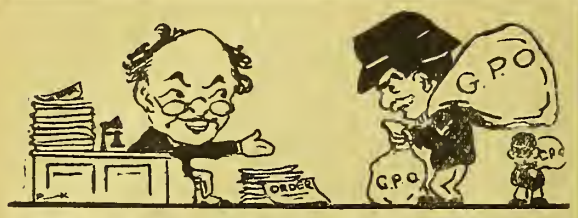

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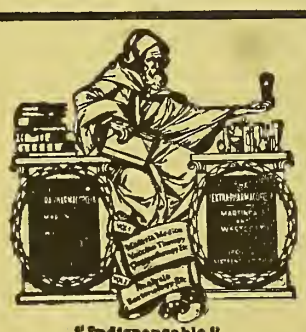
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The establishment of a Fund to grant Annuities to Commercial Travellers, being members, who are necessitous and incapacitated from earning a subsistence, and to the Widows of Members who are eligible, if necessitous, for relief.
Copy of Rules may be had upon application to the Secretary.

COLLEGE OF OPTICS

GLASGOW and EDINBURGH.

Principal: T. S. BAIRD, F.R.M.S., D.C.O., &c.,
12 RENFIELD STREET, GLASGOW.

Qualified by the various Examinations in Optics and Sight-Testing of the College of Optics, Glasgow; the Worshipful Company of Spectacle Makers, London; and the British Optical Association, &c.
Fellow of the Royal Microscopical Society, &c. First Prizeman in Advanced Mathematics, Physics, and Chemistry, Glasgow; Science Scholarship Holder.

Correspondence Courses.

(Special offer during War.)

Write at once for particulars of above and D.C.O. Examination. Note New Address, where all communications should be directed.
T. S. BAIRD, F.R.M.S., 12 Renfield Street, Glasgow.

By Royal Warrant of Appointment to H.M. The King.

By Royal Warrant of Appointment to H.M. The King.

Only ONE Address.

DAY & SONS, CREWE. LTD (CREWE)

ESTABLISHED 1840.

HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only ONE Address.

LARGEST SALE IN THE WORLD.

DAY'S BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills and Low Condition in all Stock.

Price 1/8 per bottle

DAY'S HUSKOLEIN

Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

6/6 per bottle

DAY'S ZOMO-SAL.

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

DAY'S RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.
The Ewe Drench for Ewes, 3/6 per doz.

DAY'S OILS

(THE PURIFIED DRIFFIELD OILS)

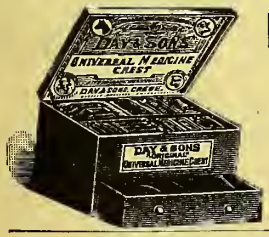
Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

DAY'S WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

2/6 and 6/- per bottle.



DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £1 4s., £2 4s., £5, and £10 10s. ; Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest Illustrated is similar to that at £5 and £2 4s.

Great Specialities.

ONLY GENUINE FROM

DAY & SONS, CREWE, LTD.,

CREWE, ENGLAND.

LIBERAL TERMS FOR FOREIGN BUYERS.

CHEMICAL PLANT

FOR NEARLY ALL INDUSTRIES IN

STEEL, CAST IRON, BRONZE
AND SPECIAL ALLOYS

OR

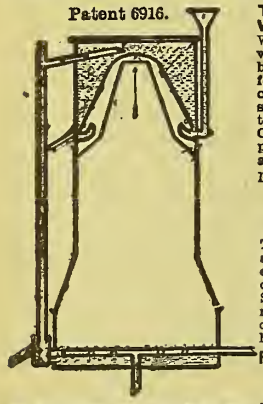
TANTIRON

ORGANIC & SYNTHETIC PRODUCTS,
SALICYLIC ACID & SULPHONATED,
CHLORINATED & ACETYLATED COMPOUNDS.
PLANTS FOR NITRIC, SULPHURIC & HYDROCHLORIC ACID.

LENNOX FOUNDRY CO., LTD.
GLENVILLE GROVE, NEW CROSS,
LONDON, S.E.

Telegrams: "Equifex Dept., London." Telephone: New Cross 770.

Patent 6916.



TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c.

We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic. Prices as below:—

For producing up to

1½ gallons per hour,	£3 10 0	Plus 33⅓% net War Advance.
„ 5 „ „	£10 0 0	
„ 9 „ „	£12 10 0	
„ 15 „ „	£16 10 0	

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills:—National Physical Laboratory, 2 in use; Imperial College of Science, 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses, etc. etc.

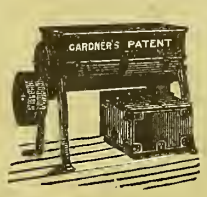
Pamphlets & particulars forwarded on application

Estimates submitted free if required for supplying and fitting complete.

BROWN & SON, Alembic Works, 9 Wedmore St., Holloway, N.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS



OVER 4,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust

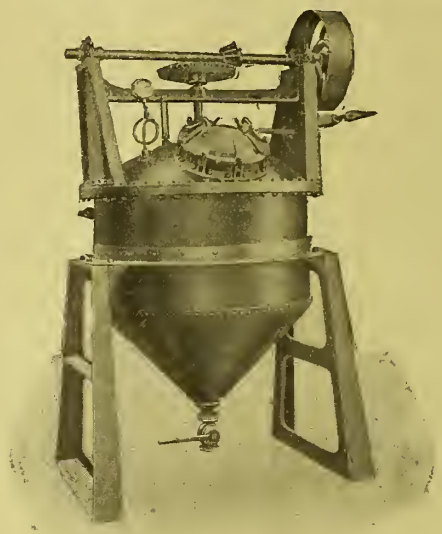
FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

COPPER PRESSURE VESSEL, or DIGESTOR WITH ROUSING GEAR



DIGESTORS & AUTOCLAVES for all purposes.

JOHN DORE & CO. *Coppersmiths and Chemical Engineers.*
28-30 HIGH STREET, BROMLEY, E. 3.

TIDMAN'S SEA SALT

The Proprietors have been compelled to revise their prices, which are now as follows. The former prices will be reverted to as soon as market, transit, and labour conditions allow.

NEW PRICE LIST.

	Advertised Price Per doz.	Minimum Retail. Per doz.	Wholesale Per gross.
"PENNY PACKETS" (12 in box)	**1/6**	**1/3**	**10/6**
Twopenny Packets (12 in box) ...	**2/-**	**2/-**	**19/-**
	Each.	Each.	Per doz.
Boxes, about 1½ lbs.	**4d.**	**4d.**	**3/4**
„ „ 3½ „	**8d.**	**8d.**	**6/8**
„ „ 7 „	**1/2**	**1/2**	**11/6**
„ „ 14 „	**2/-**	**2/-**	**20/-**

Four 7 lb. Boxes CARRIAGE PAID for 4/–.
Six 7 lb. Boxes CARRIAGE PAID at 11/6 per doz.
Assorted Orders to value of 10/-, CARRIAGE PAID, any of above sizes.

No stock to hold		Each.	Each.	Each.
Bags of 28 lbs.		**3/6**	**3/6**	**3/-**
„ 56 „		**6/6**	**6/6**	**5/6**
„ 1 cwt.		**12/-**	**12/-**	**10/-**

Carriage Paid.

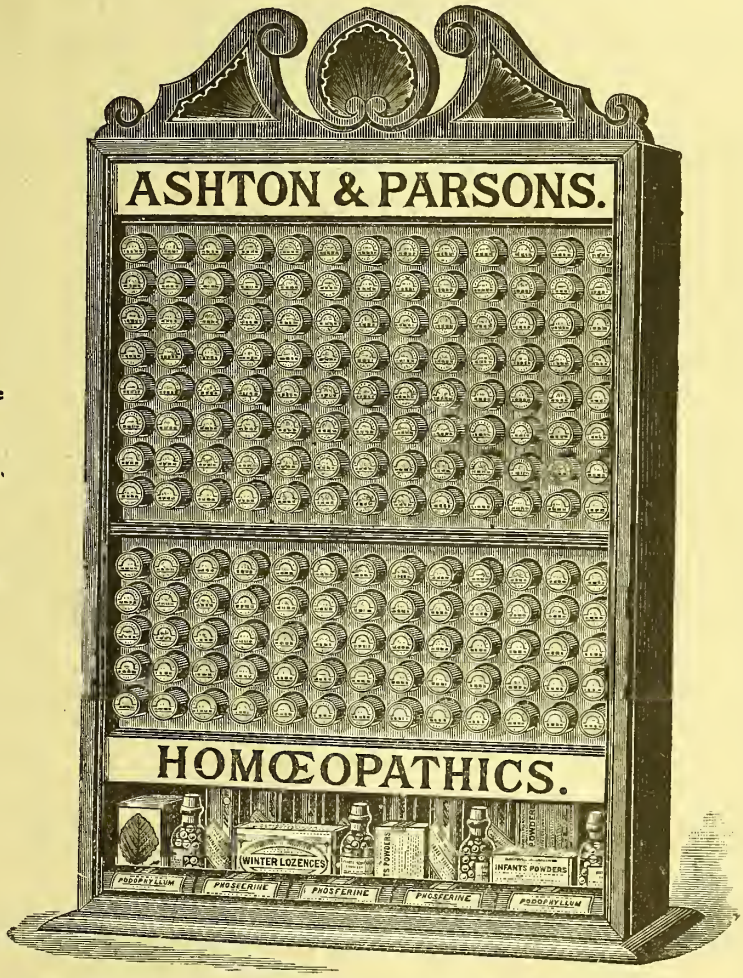
2½ % Discount for Cash on all orders of 20/- and upwards.

Packing Cases extra and returnable. Half value allowed if not returned.

TIDMAN & SON, Ltd., London, E. (Members of P.A.T.A.)

ASHTON & PARSONS'
HOMŒOPATHIC SHOWCASE

18/-



18/-

THE "A. & P." SHOWCASE

PRICE - - 18/-

ASHTON & PARSONS supply their Showcases at actual cost price No need to purchase a large quantity of unsaleable stock to obtain a so-called "free" Showcase.

WRITE FOR ILLUSTRATED LIST, POST FREE.

ASHTON & PARSONS, Ltd., Ludgate Hill, LONDON, E.C.

DR. J. COLLIS BROWNE'S CHLORODYNE

Revised Prices and Terms:

OCTOBER 1915.

Size	1/3	3/-	5/-	12/-
Minimum Retail Price	1/2	2/10	4/9	11/6
PRICE TO TRADE (Per Dozen)	**11/9**	**29/6**	**48/9**	**117/6**

Discount: 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged 3d. on £2 parcels or under, and 1d. for each extra £1 worth, and are not returnable. Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms.

Dr. J. Collis Browne's Chlorodyne

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

J. T. DAVENPORT, Ltd., Proprietors,
117 Union Street, S.E.

THE CHEMIST & DRUGGIST SUPPLEMENT

OFFICE: 42 CANNON STREET, E.C. SATURDAY, APRIL 14 1917.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.' Everybody in the drug-trade knows that only *bona-fide* paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.W.—Very old-established Business; held by vendor many years, now retiring; returns between £850 and £900; profit above the average; first reasonable offer will be accepted.

2.—MIDDLESEX (Distant Suburb).—Ready-money Business; held by vendor many years; returns over £30 per week; good position in main thoroughfare; comfortable residence, with garden; rent moderate; price about £500; vendor invites the fullest investigation.

3.—WALHAM GREEN STATION (Within Easy Distance of).—Ready-money Retail; returns upwards of £1,000 per annum at fair prices; *net profit estimated at* £300; price £750, about the value of stock and fixtures.

4.—LONDON, S.W. (Favourite Residential Locality).—Old-established Business, Family and Dispensing; returns upwards of £1,400; *gross profit about* 45 *per cent.*; terms, valuation of stock and fixtures and sum for goodwill to be arranged equitably.

5.—SLOANE STREET (Near).—Retail and Dispensing Business; held by vendor upwards of 30 years; returns £2,000; *gross profit* 50 *per cent.* (proof given); terms, goodwill £250, stock and fixtures by valuation; good opening for a partnership.

6.—LONDON, N. (Main Line of Rail).—For immediate Disposal, a good but neglected Business returning, under Assistant, £1,270 at fair prices; books audited by accountant and stock taken annually; terms, small sum for goodwill and valuation of stock and fixtures.

7.—CITY PHARMACY.—Neglected Business, returns, present rate, under Assistant, about £13 weekly; an opportunity presents to materially extend the turnover; offer wanted.

8.—KENT.—Established Business; returns upwards of £1,400 yearly at fair prices; attractive shop, double-fronted; well-selected stock; rent £50 yearly; price £900.

9.—ESSEX (Health Resort).—Modern Pharmacy, situate in the principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

10.—SUSSEX.—For immediate Disposal, well-established Business returning between £700 and £750; *profits about* 50 *per cent.*; commodious premises; rent £40 yearly; new lease will be granted; price £275; illness cause of sale.

11.—BIRMINGHAM.—Retail and Dispensing Business; established many years; returns, under management, about £600, formerly £1,000; there is also an appointment giving an income of £80 yearly; satisfactory reason for disposal; valuation terms entertained.

12.—OXON. (Market Town).—Good-class Business, Retail, Dispensing, and Photographic, with small Mineral-Water Plant; returns average over £1,000 yearly; scope for development; good position in main thoroughfare; valuation terms entertained.

13.—CARDIFF.—Retail and Dispensing, together with Wines; returns £1,500; excellent premises, situate in main thoroughfare; vendor desires to take up an appointment, and for a quick sale will accept the value of stock and fixtures.

14.—SURREY.—Good-class Retail and Dispensing Business, with Optical connection, in select residential district; returns about £2,500 per annum; terms, valuation of stock and fixtures, and sum for goodwill to be agreed equitably.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

PARSON C. BAKER
(Pharmaceutical Chemist),
Trade Valuer & Transfer Agent.
Recommended by The British Drug Houses, Ltd.; Messrs. Meggeson & Co.; Barclay & Sons, Ltd.
Valuer to the Association of Manufacturing Chemists.
Mountfield Road, CHURCH END, FINCHLEY, N.
Tel. No.: Finchley 812.

BATTAM & HEYWOOD
(Estd. 1837.)
CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.
Balance Sheets Prepared. Books Audited.
3 DAVIES STREET, BERKELEY SQUARE, W.
Telephone: Gerrard 2169.

BERDOE & FISH
VALUERS & TRANSFER AGENTS,
35 Jewry Street, Fenchurch Street, City.
Telephone: 1809 Central.
NO CHARGE TO PURCHASERS.

1.—DEVON (Market Town).—Good-class Retail, Agricultural, and Photographic Business, under management and scope for increase; returns average £1,300; principal did £1,500; main road position; splendid premises; fully stocked; price simply valuation, about £900.

2.—ESSEX (Popular Seaside Resort).—For immediate sale, through death; good-class Business; returns average £800; plenty of scope in smart energetic hands; well-appointed Pharmacy; good house and garden; price about £600 or offer.

3.—HERTS (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; excellent house, bathroom, etc.; very best position; well stocked; price for prompt sale, £400 cash; strongly recommended.

4.—YORKS.—First-class Retail and Dispensing Business, pleasantly situated; easily worked; returns over £900; net profit £300; good house and Pharmacy; scope for increase; price, valuation about £650.

5.—LONDON (12 miles out).—Middle-class Retail and Dispensing, with Dentistry; returns approach £1,300, increasing; net profit over £400; modern house and large garden; rent £50; compact, well-fitted Pharmacy, well stocked; price £600, or £150 and valuation; partnership entertained.

6.—LONDON, N.W.—Exceptional offer; Light ready-money Suburban Retail, returning over £20 a week; no immediate opposition; rent more than covered by letting off house, on lease; double-fronted shop; heavily stocked; price for quick sale £350, or would accept £150 for lease and fixtures and remove stock, or so much as not required.

STOCKTAKINGS.
Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

PARTNERSHIPS.

DEATH VACANCY.—Confidential correspondence invited concerning interest in old-established well-known Wholesale and Retail concern; experience and substantial capital essential; present gross profit above £2,000 per annum. Kindly write "Northern County" (196/37), Office of this Paper.

OPPORTUNITY for Qualified to join Company with excellent prospects; about £500; good salary. Apply 198/24, Office of this Paper.

BUSINESSES WANTED.

WANTED, good, genuine, village Business, suitable for unregistered person; replies in strictest confidence. Address, A. E. Ashby, The Dene, Stainland.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LANCASHIRE (Large town).—Sound, progressive Business for sale within next few months; price about £800; shop is well stocked; very little credit trading; N.H.I. about 10 per cent. of turnover; rent low; good house attached; healthy situation; owner taking bigger concern. Apply, 193/10, Office of this Paper.

LONDON, N.W.—Old-established high-class Pharmacy for Sale; good prices obtained; takings this year average £30 per week; scope for increase; Optics and Photography could be easily added to advantage; moderate rent; no reasonable offer refused for quick sale, as owner must sell. 199/1, Office of this Paper.

LONDON, S.E.—Spacious shop, with Post Office attached; electric light; good house and convenient cellars; small garden, with back entrance; pleasant neighbourhood; average takings for past three years £16 weekly; 400 N.H.I. Prescriptions monthly; Post Office pays over £100 yearly exclusive of commissions during war; rent £40; rates low; no Sunday business has been done, scope for same; fine opportunity for qualified man. 198/5, Office of this Paper.

WOOD GREEN, 25 Finsbury Road.—Old-established Chemist and Druggist's; corner shop and house to Let, tenant having been "called up"; Post Office attached; excellent fittings, etc.; small premium; rent £42. Apply, 198/12, Office of this Paper.

DRUG STORE; East London Market; takings £30 per week; well fitted and stocked; lock-up shop; rent £50; lease eight years to run; valuation of stock and fixtures (about £500); owner called up; urgent. Apply, 200/10, Office of this Paper.

AGENCIES.

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RUSSIA.—Englishman (Inter-Science, London), with six years' experience in Petrograd, will be free after the war to take up the representation of two or three first-class firms. Please address replies to Bird & Co., Onward Works, Desborough, endorsing envelope "For Avenir, Petrograd."

TO LET.

CHEMISTS.—HOUSE AND SHOP TO LET, July 1st; Leeds district; splendid opportunity for fully-qualified Chemist; previously occupied for 14 years by uncertificated man; unique position; the only and the nearest Chemist for over 5,000 people. For further particulars apply D. Hullah, 5 Carr Crofts Grove, Armley, Leeds.

FOR SALE.

CALLED UP.—Unsold Fixtures, Stock, etc., for removal; valuable information of undeniable grand position to purchaser. Marston, Chemist, Walthamstow.

100 FITS U Self-Centring Mounts; all new; 5 × 412, 10 × 512, 41 × 612, 22 × 622, 5 × 712, 6 × 722, 11 × 522; 4s. each. Wallis Jones, 36 The Market, Palmers Green, N. 13.

20 LB. Saccharine Tablets, half-grain in one, 100s. per lb., whole or part; sample perfect; cash or exchange. Walton, Chemist, Batley Carr.

FINANCIAL.

ADDITIONAL Working Capital required in well-known, old-established, high-class Dispensing business, chiefly booking; suitable investment for private person; good Drug and Sundry House. Mr. Harris, 11 Haukslade Road, Waverley Park, S.E.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

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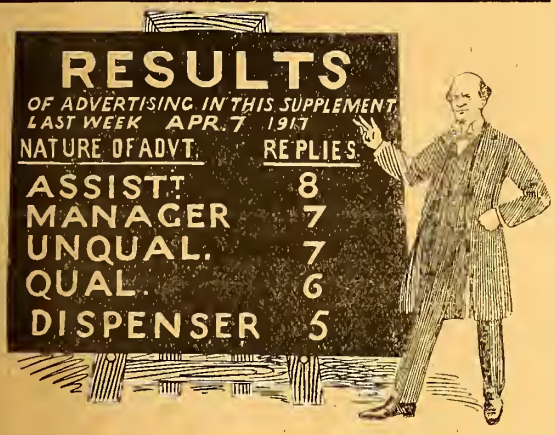

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

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TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETAIL.

ABERTILLERY.—Wanted, capable Assistant for brisk Cash business; must produce good references; suitable man well treated; also lady Assistant for Dispensing. Counter. Apply, with full particulars in first letter, to Prichard, Cash Chemist, Abertillery, Mon.

BALHAM.—Assistant; ineligible; reasonable hours and good salary to desirable man; abstainer; must be thoroughly capable for good-class business; photographic knowledge required; good references essential. State age and full particulars, Cooper, Chemist, 1 Ramsden Road, Balham, London, S.W.

BIRMINGHAM.—Wanted, qualified Manager (lady or gentleman), for Light Retail Dispensing Branch Business; good house attached; or might arrange for outdoor if preferred. Apply, stating full particulars of experience, age, and salary required, to O. W. Evans, Pharmacist, The Green, Bournville.

RMINGHAM (Near).—Smart young lady Assistant required; must be a good Dispenser and have had Counter experience; permanent and comfortable berth. "Hazel" (199/212), Office of this Paper.

BIRMINGHAM.—Firm of Retail Chemists has an opening for a smart, unqualified man, age about 46, to assist in Stock-taking department; must be quick at figures and well up in the trade; permanency if satisfactory. "Stock" (199/213), Office of this Paper.

BRISTOL.—Assistant Wanted; qualified or otherwise (ineligible); good salary. Apply, stating salary required, age, references, and when disengaged, to F. Moss, 206 Redland Road, Bristol.

BRISTOL.—Wanted, capable Assistant; short hours. Apply, with photograph, to Ferris & Co., Ltd., Union Street, Bristol.

BUXTON.—Lady Assistant, with Retail experience, wanted for a good-class Business; outdoor berth. Apply, W. T. Young, 7 Spring Gardens, Buxton, Derbyshire.

CARDIFF.—Assistants Required; outdoor; temporary and permanent. Hicks & Co., Chemists, Cardiff.

CARDIFF.—Vacancy for good Assistant; outdoors. Duck & Son, Chemists, Cardiff.

CIRENCESTER.—Assistant; unqualified; Dispensing and Agricultural business; May 1st. Apply, with usual particulars, enclosing photograph, Harold Smith, Cirencester.

EALING, W. 5.—WANTED, an Assistant (lady or gentleman) for good-class Dispensing business. Apply, with full particulars, age, experience, and salary required (outdoors), to W. A. Weston, 8 Sandringham Parade, Ealing, W. 5.

ERITH-ON-THAMES (12 miles from London Bridge).—Capable Assistant required at once for brisk Light Retail and Dispensing in manufacturing district; outdoors; reasonable hours; good salary offered to reliable man. In reply, please give fullest particulars, enclosing photo (to be returned), Walter Reeson, 80 High Street, Erith, Kent.

HALIFAX.—Wanted, a capable, unqualified Assistant, lady or gentleman (latter must be ineligible for military service); short hours; no Sunday or holiday duty; a good permanent berth and liberal salary to the right person. Apply, stating age, height, and salary required, with recent references, to Taylor's (Northern), Ltd., 4 Crown Street, Halifax.

HARROGATE.—Lady, as Second Dispenser, Wanted for the season; state experience and salary required; fare paid one way. Windemer, Chemist, Harrogate.

HULL.—Wanted, a qualified Assistant (lady or gentleman) for Light N.H.I. Dispensing and part assistance at Retail Counter; state salary and when disengaged. Apply, 190/29, Office of this Paper.

KENSINGTON.—Wanted, an experienced, capable Assistant for Dispensing business from 2 o'clock every afternoon. Salary £2 weekly. Apply "R. S. P." (199/8), Office of this Paper.

KING'S COLLEGE HOSPITAL, Denmark Hill, S.E.—Qualified Assistant Dispenser (M.P.S.) wanted (male or female). Apply to E. B. Fairweather, Dispenser, at the Hospital.

LLANDUDNO.—Wanted, Assistant (male or female) for Retail and Dispensing business; outdoors. State full particulars of experience and salary required to T. Esmor Hooson, Ltd., Llandudno.

LONDON, N.—Reliable lady Dispenser wanted (immediately) for high-class Pharmacy; previous Counter experience not essential. Write, stating qualifications, etc., to 197/25, Office of this Paper.

LONDON, N.E.—Qualified Manager (under principal) in brisk Business with three branches; over military age or ineligible for Army; hours from 9 a.m. till 9 p.m., Thursdays 1 p.m. (two kept). Full particulars, stating age, experience, and salary required (letter only), to 'Chemist," 300 Amhurst Road, Hackney, N.E.

LONDON, N.W.—Qualified Assistant Wanted for light duties; suit elderly gentleman; also Lady Assistants, with Shop experience. P. Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

LONDON, N.W.—Wanted at once, capable Assistant (male); unqualified; quick and reliable Dispenser; ineligible for Army. Apply, with full particulars, salary required, &c., to W. R. Ames, High Street, St. John's Wood.

LONDON, N.W.—Wanted, qualified Manager for good Dispensing and Light Retail, or with view to succession. Apply, with full particulars, to "Nella" (198/11), Office of this Paper.

LONDON, S.E.—Wanted, young lady Assistant for Retail trade, or young man discharged from Army; hours, 9 a.m. till 8 p.m., Saturdays 9 p.m., Thursdays 1 o'clock. State salary required and usual particulars to Messrs. Prosser, Roberts & Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, London, S.E. 5.

LONDON, S.W.—Wanted, lady Assistant in good-class Dispensing and Retail business with Hall qualification; preferably with some business experience; outdoors. Marshall & Co., 93 Streatham Hill, S.W. 2.

LONDON, S.W.—Wanted, an Assistant; ineligible for military service. Apply, with full particulars, to Amoore & Co., 173 Sloane Street, S.W.

LONDON, S.W.—Alsop & Quiller require an Assistant with some experience in first-class Dispensing and Retail. Apply, with full particulars, or personally, to A. W., 137 Sloane Street, S.W. 1.

LONDON, W.—Assistant (outdoors); ineligible; accustomed to good-class Dispensing business; or lady able to Dispense, with knowledge of the business; moderate hours; salary to commence £2 per week to suitable applicant. Send usual particulars and reference, J. W. Feltwell, 91 Hammersmith Road, West Kensington.

MANCHESTER.—Branch Manager at once; a good Counterman with references will receive generous treatment. Apply, with full details, to "Soda," c/o Heath Bros., Blackfriars, Manchester.

MANCHESTER.—Wanted, Second Assistant; also an experienced lady Assistant, for making Pharmaceutical Preparations. Give full particulars as to previous experience, age, and salary expected. Apply, 198/31, Office of this Paper.

MANCHESTER DISTRICT.—Qualified Branch Manager for high-class Retail and Dispensing business; house accommodation for married man; military ineligible. Applicants kindly state age, height, references, salary required, and enclose photo if convenient (to be returned), to T. Woodruff, Ph.C., High Street, Cheadle, Cheshire.

MANCHESTER DISTRICT.—Managing Assistant wanted for medium-class business with N.H.I.; need not be qualified, but must be capable and a good Dispenser; permanent berth. Particulars and salary required (photo if convenient) to "Management" (198/4), Office of this Paper.

NEAR MANCHESTER.—Wanted (immediately), qualified Assistant; comfortable position; would suit elderly or lady. Apply, stating salary required (outdoors), and enclosing references, etc., to 198/27, Office of this Paper.

PROVINCIAL TOWN.—In good-class Dispensing business, capable Assistant; ineligible or over military age; commencing salary £3 10s. per week; hours, 9 to 8, two evenings weekly till 10. Also smart young Lady, with some experience, for books, etc. 198/36, Office of this Paper.

ROYAL GWENT HOSPITAL, Newport, Mon.—Assistant Dispenser wanted for the duration of the war; must be qualified. Apply, giving full particulars of experience, to the Secretary-Superintendent.

ST. ANNES-ON-THE-SEA.—Lady Dispenser, with Hall Qualification, for season; outdoors; four lady Assistants kept. Please state age, experience, references, salary required, and enclose photo (to be returned), J. H. Taylor.

SOUTH of England.—Assistant required; free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SWINDON.—Assistant (ineligible) required for good-class Mixed Retail Dispensing and Photographic business. Full particulars to Green & Co., Chemists, Swindon.

TUNBRIDGE WELLS.—Required, capable, reliable, qualified Manager (ineligible for Army), able to supervise and control, for good-class modern Dispensing business; would be required to keep books; first-class references essential. A. S. W. Pearmund, 17 Calverley Road.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (199/211), Office of this Paper.

A GOOD qualified Assistant, with knowledge of West-end trade preferred, and ineligible for the Army. Kindly address full particulars to "Faxo," c/o S. Maw, Son & Sons, 7/12 Aldersgate Street, E.C. 1.

ASSISTANT wanted (qualified) for Dispensing Counter; ineligible for Army or over military age; outdoors; good salary to suitable man. Apply L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

AT ONCE.—Lady or "ineligible" gentleman, accurate and experienced Dispenser, qualified preferred, for good-class Retail and Dispensing business; easy hours. "Omega" (194/31), Office of this Paper.

BRANCH Manager wanted at once; must be over military age or ineligible. Please apply, in the first instance by letter, stating salary required, when disengaged, and enclosing, if possible, recent photograph, 198/29, Office of this Paper.

COMPETENT lady Assistant wanted for high-class Dispensing and Country business. Apply, with full particulars of age, references, salary required, and photo (to be returned), to Dickinson, Pharmacist, Stamford, Lincs.

COMPETENT Assistant wanted, principally for Counter work, lady or gentleman, in high-class business. Apply, Quibell, The Station Pharmacy, Golders Green, N.W. 4.

COMPETENT Assistant wanted at once; lady or gentleman; preference given to one with previous experience at the Retail Counter. Frank A. Rogers, 327 Oxford Street, W. 1.

DISPENSING Assistant (lady or gentleman), for N.H.I., Light Retail, etc., in healthy Midlands country town; outdoors; hours easy; no Sunday duty; comfortable berth. State salary required and full particulars to Blades, Chemist, Leek, Staffs.

IMMEDIATELY.—Part- or Whole-time Assistant; unqualified; hours arranged as required; first-class Dispensing experience. Apply Atkins, 30 Highbury Park, Islington, N.

IMMEDIATELY.—A competent Assistant with a good knowledge of Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace, W. 14 (opposite West Kensington Station).

JUNIOR (ineligible); Light Retail and Dispensing; time for study could be arranged (outdoors). Apply, full particulars, age, experience, references, and photo if possible, "Progress" (197/38), Office of this Paper.

JUNIOR Assistant for Dispensing and Counter work, male or female. State experience and wages; short hours; no Sunday duty. Wovenden, Sale, Manchester.

JUNIOR Assistant required (lady or gentleman) for good-class Pharmacy. Apply, stating salary required and full particulars, to A. B. Higgs, Pharmacist and Optician, Horley, Surrey.

LADY Dispenser wanted for N.H.I. and Private Dispensing; easy hours; half-day from 12 noon Thursdays holiday, Monday, Tuesday, Friday 8.30 to 7.0, Wednesday 8.30 to 8, Saturday 9.0; dinner 1 hour, tea ¾ hour; no Sunday work. State salary (outdoors) and usual particulars to Teasdale, Chemist, Barnsley.

MANAGER required (at once) (ineligible) to take full charge; knowledge of agricultural business essential. Apply, with full particulars, experience, age, references, and salary required, to Allen & Neale, King's Lynn.

MANAGER, qualified or unqualified, lady or gentleman, for Branch Business doing a Light Retail trade; outdoors; easy hours; no Sunday duty. State full particulars and salary required Bates & Hunt, Wellington, Salop.

MANAGER, ASSISTANT, immediately, for good-class Retail Dispensing, and Photographic business, Newcastle-on-Tyne district; owner unable to devote full time; must be abstainer thoroughly trustworthy, and competent to take sole management good salary and permanency to suitable man. Apply, in first letter, giving full particulars, enclosing photograph (to be returned), to 200/5, Office of this Paper.

MANAGER for Richmond Hill (married preferred), to reside on premises; personal interview preferred; Optical qualification an advantage but not essential. Apply Blanchford, Chemist Optician, 76 High Street, Wimbledon, S.W. 19.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female) easy hours; good and progressive salary, with excellent prospects free removal.

ONE qualified and one unqualified Assistant wanted; Manchester district; non-eligible. Particulars as to experience, salary etc., to 199/18, Office of this Paper.

QUALIFIED Manager (single), age about 45, required for Relief work; permanent and lucrative post. "Relief" (199/210), Office of this Paper.

QUALIFIED Manager, age about 46, required; permanency; good salary; comfortable berth for steady, willing worker. "Hazel" (199/21), Office of this Paper.

QUALIFIED Assistant (ineligible for Army); good salary; whole day holiday a week; occasional Sunday duty. Apply personally, or write stating full particulars and salary, to Wm. Fox & Sons, Ltd., 109-113 Bethnal Green Road, E. 2.

REQUIRED, at once, the services of a qualified Dispenser (female). Apply, by letter or personally, with testimonials, to the Heart Hospital, Westmoreland Street, W.

SALESMAN and Dispenser wanted (unqualified); must be ineligible or over military age. Apply, in the first instance, by letter, stating salary required, when disengaged, and enclosing, if possible, recent photograph, 198/290, Office of this Paper.

WANTED, Dispenser and Bookkeeper (male or female) to Doctor in small town in Gloucestershire (outdoor); previous experience preferred; hours, 9-11 a.m., 2 p.m., and 6-7.30 p.m., Sundays 10-11 a.m., 2 p.m.; salary 30s. a week and small temporary bonus; required early in May. Apply, letter, H. Jenkins, 137 Willesden Lane, London, N.W. 6.

WANTED, qualified Manager for Branch in country district; state salary and particulars. Topping Bros., 31 Church Street, Preston.

WANTED, Manager, to take full control country business; Proprietor in France; Yorks town; salary £3 3s. (outdoors); must be ineligible for Army and an abstainer; comfortable berth for good man. Apply, 198/23, Office of this Paper.

WANTED, a reliable Manager for increasing business; good salary. Apply to Director, 316 Commercial Road, E.

WANTED at once, Assistant, elderly, qualified, for Dispensing; light duties; permanency. Apply, J. A. Thompson, 48 Broadway, London Fields.

YOUNG Lady Dispenser required; one with Counter experience preferred; must have the Apothecaries' Hall qualification. If convenient, apply personally any morning (except Saturday), Parke's Drug Stores, Ltd., 65 Harmood Street, N.W.

YOUNG Lady Assistant, unqualified, required (at once) for Light Retail and Dispensing (outdoors); easy hours; no holiday or Sunday duty. Apply, with full particulars as to experience, salary, etc., to Jas. Clayton, Chemist, Middleton, Manchester.

DISPENSING FOR WOMEN.

Special Training for Society of Apothecaries' Examination, at the Leeds Technical School and the Leeds Public Dispensary. New Course commences May 1. Full particulars free on application to Mr. JAMES GRAHAM, Education Offices, Leeds.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ASSISTANTS wanted at once for the Wet Room and Pill Department. Apply, Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

CHEMIST wanted for Government-controlled Sugar Refinery; must have experience of Sugar Refining, Analysis, etc., and be ineligible for military service or over 30 years of age and below Class B 3. References and name of present or last employer to be sent with application. Write, Box G991, Lee & Nightingale, Liverpool.

DISPENSER wanted, male or female, by Manufacturers of Toilet Preparations, to give three or four hours during day or evening; state full particulars, experience, qualifications, and salary expected; all replies confidential. Apply, 197/40, Office of this Paper.

DRY Floor and Laboratory hands wanted at once. Apply to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

LADY Assistants.—There are vacancies at present in a large provincial Wholesale Manufacturing Chemists for one or two ladies holding the Apothecaries' Hall Assistants' Qualification; students reading for the Hall Certificate or the Minor will be considered. Apply, with full particulars, to "Nottingham" (1/10), Office of this Paper.

MEDICAL and General Lozenge Maker wanted. State experience, age, etc. Apply, 259/57, Office of this Paper.

REPRESENTATIVE wanted with connection amongst the Wholesale and Manufacturing Drug and Chemical Trades; should be familiar with the markets and ineligible for, or discharged from, military service; good prospects. Apply, with particulars of previous engagements, to "B. A." (2/58), Office of this Paper.

WOMAN CHEMIST,

STRONG, healthy, required to assist and understudy Works Manager in North London Chemical Works manufacturing Toilet and Packed Goods; Chemical training necessary, but Works experience not essential. Write fully, giving details of experience, also state age, height, and salary required, to "Chemicas," c/o Spottiswoode, Dixon & Hunting, Ltd., Kingsway Hall, W.C.

SUNDRIES and Packed Goods Department.—Wanted, Manager, with experience in both departments; must be up to date in business methods. State fully qualifications, age, and salary required, in confidence, to 199/20, Office of this Paper.

WANTED, by Manufacturing Chemist, good all-round man as Warehouse Foreman; must be ineligible for the Army and have had recent experience in the laboratory of a Manufacturing Chemist. State age, experience, and wages, by letter only, to J. W. Ramsden, 6 Wyatt Park Road, Streatham Hill, London, S.W. 2.

WANTED, Assistant for manufacture of Fine Chemicals; knowledge of Chemistry advisable but not essential; salary £180; Liverpool district. Apply, 3/67, Office of this Paper.

WANTED, in the Laboratory of an old-established London firm of Manufacturing Chemists, a man experienced in the making of Tinctures, Infusions, etc. (permanency). Also a Packer (male or female). State experience and wages. Apply, 200/14, Office of this Paper.

WOMAN Packer; accustomed to putting up Chemist's stock. Apply, by letter, to "A. B. C.," 80 Gloucester Road, South Kensington, S.W.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]
RETAIL.

AS Manager; elderly; tall; active; qualified; good experience and references; in May. Apply, 197/34, Office of this Paper.

ASSISTANT or Locum, experienced, disengaged to end of May; North Midlands preferred. Apply, 194/23, Office of this Paper.

BRANCH Manager or Locum; qualified; married; 57; height 5 ft. 4 in.; at liberty; state salary and full particulars; Birmingham district or Midlands preferred but not essential. "Spes," 91 Antrobus Road, Handsworth, Birmingham.

CHEMISTS requiring qualified help can obtain services of active elderly Pharmacist as Manager, etc. Offer and particulars to "Salol," 7 Avenue Road, Wallington.

DISENGAGED; 41; unregistered; fully trained; Manager or Assistant. "Statim," 4 College Street, Aberdare.

DISENGAGED; London and provincial experience; active; with excellent references; Locum or permanency. 200/24, Office of this Paper.

DISPENSER; experienced; 44; disengaged; West End or City. 199/13, Office of this Paper.

DISPENSER (to-day transferred Army Reservist), desires immediate appointment; permanency or temporary; experienced in Hospital, Doctor's, and Chemist's; N.H.I. Dispensing; qualified (Hall); age 46; single; gentlemanly; personal interview. Smith, 33 Bristow Road, Hounslow, Middlesex.

LADY Dispenser (Hall), good testimonials, seeks post where she would have time for study. Please state particulars. 194/29, Office of this Paper.

LADY Dispenser (Hall Qualification), experienced, desires post, whole or part time; London preferred. Apply, 194/32, Office of this Paper.

LADY desires Assistant's post; served apprenticeship; experienced in Hospital and Institution work; has managed Drug Stores. "Dispenser," 150 Elgin Avenue, Maida Vale.

LADY, with a year's good Dispensing training, seeks post Assistant Dispenser with Doctor or Chemist. S. Jones, 79 Stockwell Park Road, Stockwell.

LADY Dispenser (part Hall) desires post with Doctor in London, or Part-time Assistant with Chemist or Institution. Year's experience. "O.," c/o Mrs. Wood-Smith, 9 Blenheim Road, Bedford Park, W. 4.

LADY Dispenser (Hall) desires post; Doctor, Chemist, or Institution; 3 years' experience. Apply, 198/19, Office of this Paper.

LADY Dispenser (Hall) wants engagement afternoons or two or three days a week; Hospital and Doctors' experience. C., 14 Endsleigh Gardens, N.W. 1.

LOCUM Tenens or Temporary; disengaged; over military age; unqualified. "L. T.," 72 Bakewell Street, Coalville, near Leicester.

LOCUM; qualified; experienced; Hospital or Pharmacy; shortly disengaged. "Pharmacist," Elmwood, Barnsley.

LOCUM (temporary) or Manager; qualified; abstainer; over age; disengaged; West preferred, not essential. Apply, 200/23, Office of this Paper.

M.P.S. Over military age; Management or Locum; London; experience all branches. "Dispenser" (197/37), Office of this Paper.

MANAGER; qualified; over military age; disengaged April 17; single. "I. W. D." (194/22), Office of this Paper.

MANAGER; qualified; all-round experience; excellent record and references; used to control of large staff, buying, etc. 200/17, Office of this Paper.

MANAGER; open for immediate engagement; thoroughly experienced. "Ph.C.," 220 Elmhurst Mansions, Clapham, S.W.

QUALIFIED Manager; permanency; Locum; experienced; good Counterman; references; disengaged. Pharmacist, 35 Clive Street, Tunstall.

QUALIFIED lady Dispenser requires light work; temporary or permanent; bookkeeping, etc.; Doctor or Institution. L., c/o Steepleton Rectory, Dorchester, Dorset.

QUALIFIED; ineligible; extensive, varied experience; Hospital or Institution Dispensing preferred; Retail managership entertained; disengaged. Morgan Jones, 4 King's Road, Camden Town, N.W. 1.

QUALIFIED lady Dispenser requires morning and evening engagement in London; first-class experience. Miss Samuels, 156 Elgin Avenue, W.

TEMPORARY or permanency; married; 45; qualified; experienced; disengaged shortly; excellent references. "Pharmacist" (199/4), Office of this Paper.

UNQUALIFIED (age 38); Assistant or Manager; good all-round experience; rejected for Army; disengaged shortly. G. Ellis, 37 Canonbury Square, N.

UNQUALIFIED; 30; ineligible; all-round experience; competent; any distance; offers. "Rhei" (199/14), Office of this Paper.

UNQUALIFIED; over military age; all-round experience; London preferred; outdoors. "Aspirin," 72 Tremadoc Road, Clapham, S.W.

YOUNG LADY (23); 5 months' Dispensing experience. 195/13, Office of this Paper.

YOUNG Lady desires post, London or near; Counter, Dispensing, and Sundries experience; 15 months present post. Particulars, and salary offered, to 198/30, Office of this Paper.

42/- Indoors and return fare; as Locum. Futcher, 3 Milton Market, Portsmouth.

WHOLESALE.

ADVERTISER, 36, exceptional initiative and experience, desires berth; Home Sales Manager, Proprietary Medicines, or similar; advertising and organising experience; would represent good House. Apply, 198/240, Office of this Paper.

ANALYTICAL Chemist, disabled, first-class experience of Oil and Drug-checking, seeks employment as Laboratory or Works Chemist near London; exceptional references. Apply, 198/35, Office of this Paper.

CHEMIST (ineligible), 20 years' Commercial and Shipping experience, and good knowledge of Wholesale trade, English, Portuguese, Spanish, French correspondent, seeks responsible appointment in London (part time preferred). Lloyd, Broad Street House, E.C. 2.

EXPERT Sales or Advertising Manager; 45. "Chemist," 24 Upham Park Road, W. 4.

REPRESENTATIVE (over military age) seeks new appointment; extensive connection Chemists, Wholesale, Retail, London, South Coast, Home Counties; Sundries, Proprietary articles, Toilet Soaps, Perfumes preferred; only first-class houses entertained. Apply, 192/4, Office of this Paper.

WAREHOUSE or Retail; 8 a.m. to 5 p.m.; next week. 10 Foreign Street, S.E. 5.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green.
Shares for Sale (free of commission, subject).—200 J. Crosfield 6% Pref., 20*s.* 9*d.*; 60 J. C. Field Ord., 7*s.* 7½*d.*; 50 Ilford 6% Pref. 15*s.* 1½*d.*; 60 International Sponge Ord., 8*s.* 1½*d.*; 250 Lewis & Burrows Ord., 6*s.*; 250 6% Pref., 13*s.* 1½*d.*; 100 Molassine 7% Pref., 13*s.* 4½*d.*; 170 Watford Manufacturing Pref., 10*s.* 7½*d.*; 30 Wright Layman Pref., 19*s.* 6*d.*
Wanted (subject).—200 Allenbury Pref.; £1,000 Idris Debs.
Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

200 GROSS lever lid 8-oz. printed Baking Powder Tins in lots of 50 gross and upwards. Offers wanted. Send postcard for sample to Marsden & Kay, Wholesale Druggists, Preston.

SECOND-HAND Shop Fittings. — 12 ft. Glass-fronted and Mahogany Serving Counter, £8 15*s.*; Counter Silent Salesman, with bent front and two plate-glass Shelves, £5 15*s.*; 7 ft. Mahogany Wall Case, equal to new, £11 10*s.*; quantity of second-hand Shoprounds, Oils and Syrups, Pill Pots, Tincture Press, etc. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.
12 ounce.
WHITE PHIALS, plain or teaspoons.
½ ounce. 1½ ounce.
1 " 2 "
Lowest Market Prices Charged.

BLUE LOTION BOTTLES, all sizes.

CORKS. Superior quality. No advance in price.
6 and 8 ounce ... ... 1*s.* per gross, in 6 gross bags.
Vials ... ... 10*d.* per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W. 1,
or ISLINGTON BOTTLE COMPANY,
7 New Inn Yard, Tottenham Court Road, London, W. 1.
Orders sent to either establishment have attention.
Established 100 years.
Bankers: London County and Westminster Bank, Bloomsbury Branch.

Near the British Museum.

KINGSLEY HOTEL

HART STREET, BLOOMSBURY SQUARE, LONDON.

Opposite the British Museum.

THACKERAY HOTEL

GREAT RUSSELL STREET, LONDON.

These well-appointed and commodious TEMPERANCE HOTELS have Passenger Lifts Bath Rooms on every floor, Lounges and spacious Dining, Drawing, Writing, Reading Billiard and Smoking Rooms.

Perfect Sanitation. Fireproof Floors. Telephones. Night Porters.

BEDROOM, BREAKFAST, ATTENDANCE AND BATH, PER NIGHT PER PERSON - - 6/6

Full Tariff and Testimonials on application.

TELEGRAPHIC ADDRESSES { Kingsley Hotel, "Rookcraft London." Thackeray Hotel, "Thackeray London."

Telephones: Museum 1232, Museum 1230.

EVERY GENUINE PACKAGE

BEARS THIS LABEL

EWEN'S LARD

is the ONLY LARD that is made exclusively for pharmaceutical and perfumery preparations and is the

BEST AND MOST RELIABLE

Guaranteed B.P. Lard on the Market.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Rodagen, 1 oz. (196/28)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Alpha-naphthol, 4 lb. (1 lb. bottles) (4/33).
Apollinaris (190/27)
Beta - naphthol (Merck), 38 lb. (1-lb. bottles) (4/33)
Contrexeville (190/27)
Iodine ampoules (equal to 1-oz. tincture) (192/12)
Perrier (190/27)
Orthoform, 16 × 1 oz. original bottles (4/36)
Sodium acetas, 4 cwt. (4/36)
Trional tablets, 5 grain (5 lb.) (192/12)
Veronal tablets, 7½ grain (2½ lb.) (192/12)
Vichy (190/27)
Vittel water (190/27)

ASPIRIN P.B., guaranteed, in 5-grain tablets; bulk price, cash with order, post free.

1,000 @ 15/- | 5,000 @ 14/6 | 10,000 @ 14/-

R. GIBBINS & CO., 1 BIRKBECK RD., KINGSLAND, LONDON, N.E. (R. GIBBINS)

Out-of-date Cameras bought. *Chemists often take in exchange an old Camera as part payment for a new one, or have same left on their shelves. We buy these on Cash Terms. Try us.*

WATSONS, 84 High St., SHEFFIELD.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d*.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

SODII Cit. Tabs., grs. 10 and 5, about 10 lb.; what offers? Callam, Chemist, East Dulwich.

4 OZ. Saccharin, spirit soluble .330; ¼ pl. Busch Aplanat Lens; good; going cheap. Butler, Chemist, 210A The Grove, Hammersmith.

TAB. Caffein Cit., grs. v., about 4 lb.; Tab. Cathart Co., 7 lb.; Pil. Ergotine, grs. 1, 2, 3, about 3 lb.; what offers? Callam, Chemist, East Dulwich.

MISCELLANEOUS.

CWT. Fine Jam Honey; 95*s*., 56*s*., 50*s*. Apply, 200/8, Office of this Paper.

SUPPOSITORIES Mould for Sale, 6.15 gr., 5*s*. 3*d*. by post. W. F., 17 Warrender Road, N.

WANTED.

BLOCK liquorice wanted; not in sticks. Apply, 193/38, Office of this Paper.

"CHEMIST AND DRUGGIST," Feb. 26, 1916. "S. B." (15/15), Office of this Paper.

BULBS for C. Sparklet Syphon; lowest cash price. Morris, Creake House, Abingdon.

WANTED, citric acid B.P. in large or small quantities. Address, 191/19, Office of this Paper.

ONE Dozen or less Levuretine (not tablets). Wallis Jones, 36 The Market, Palmers Green, N. 13.

OPAL Jars, 1 to 3 oz.; any quantities; large or small lots; spot cash. Stokes, Chemist, Bristol.

WANTED, complete set of second-hand fixtures; also willing to take stock. Apply, 197/21, Office of this Paper.

TABLET machine (rotary), large size, wanted for power. State particulars and price to "J. M.," 84 New North Road, London, N. 1.

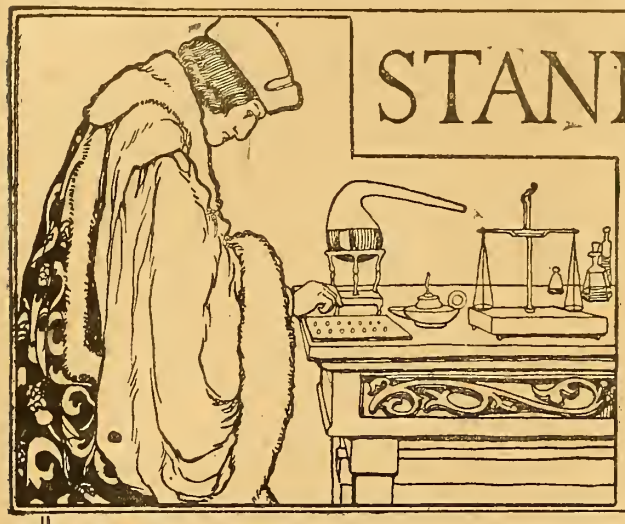
OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED, surplus stocks chemicals, drugs (original packages only), packed goods, sundries, etc. Delmas Co., 31 Lower High Street, Stourbridge.

LARGE Mortar wanted; state capacity, material, and lowest price. Also wanted, "Book of Pharmacopœias" (Lucas, 1915). West Kent Drug Co., Ltd., Tonbridge.

WANTED, 28 lb. or 56 lb. glycerine; 2*s*. lb. offered; guaranteed to be used for purposes approved by Ministry of Munitions. J. W. Ramsden, 6 Wyatt Park Road, Streatham Hill, London, S.W. 2.

To Correct a Wrong Impression



STANDARD BRAND

FLEXIBLE CAPSULES

In consequence of a letter from a Capsule Manufacturer appearing in the "Chemist and Druggist" of April 7 which might create the impression that FLEXIBLE MEDICINAL CAPSULES would soon be unobtainable owing to the shortage of Glycerine,

We desire to announce that

The Standard Tablet & Pill Co., Ltd., are fortunately in a position to supply an almost unlimited quantity of

Flexible Medicinal Capsules

"STANDARD BRAND,"

which are unequalled for QUALITY, FLEXIBILITY, ACCURACY & PERFECTION OF FINISH.

PRICE LIST OF CAPSULES ON APPLICATION.

The Standard Tablet & Pill Co. LIMITED

HOVE, ENG.

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD., 1 New-Street Square, E.C. 4, and Published by the Proprietors at 42 Cannon Street, in the City of London.—*April* 14, 1917. [72]

BRUNNER, MOND & CO., LIMITED.

Crescent BM&Co TRADE MARK. Brand.

ALKALI PRODUCTS.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.

Bicarbonate of Soda.

This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

Concentrated Crystal Soda.

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali.
58 Degrees.

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure Soda Crystals

Caustic Soda.

Manufactured from pure Carbonate of Soda, and supplied of all degrees of strength.

Bleaching Powder.

Carbonate of Ammonia

(Lump and Powder).

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE.

THE BRITISH DRUG HOUSES Ltd

B.D.H.

'SQUIRREL' EFFERVESCENT

CARLSBAD SALT

IS NOW IN GREAT DEMAND IN PLACE OF SALINES AND HEALTH SALTS CONTAINING SUGAR.

RETAIL (P.A.T.A.) 1/6. WHOLESALE 10/6 per Doz.

Customer's Name and Address free on 1 dozen lots and upwards.

Ask for a copy of this cut-out showcard in colours.

Helps to make an attractive display for counter or window.

22-30, Graham Street, City Road, London, N.

Printed for the Proprietors by Spottiswoode Ballantyne & Co. Ltd., New-St. Square, E.C. 4; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*April* 14, 1917.